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Federation Proceedings

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Published quarterly by the
FEDERATION OF AMERICAN SOCIETIES
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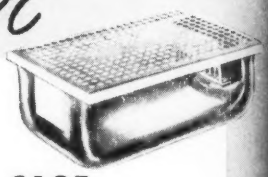
Leading Laboratories *Prefer* MOUSE-HOUSE



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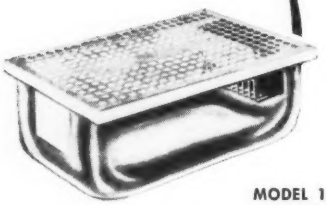

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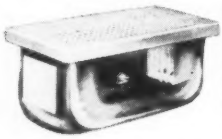
MODEL 110



MODEL 103 STANDARD

CLEAR PLASTIC CAGE FOR MICE. This cage has all the construction features described for Model 101 except the size is smaller. Cage size for all 103 Models 11⅞" x 5⅞" x 5".

MODEL 102 STANDARD

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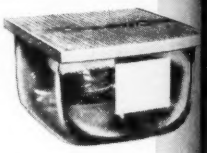

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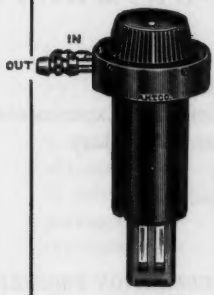

9085-C.

DIDYMIUM FILTER for Calibration

9085-W.

9085-D1. CELL CARRIER, Thomas, 0.4 ml, 10 mm light path. Permits use of sample as small as 0.4 ml in 9085-E Sample Holder (with spring on same side as cover hinge), which is regularly furnished with B. & L. "Spectronic 20" Spectrophotometer-Colorimeters 9084-A to 9084-K, inclusive. Takes 9085-N2 Absorption Cell, with 10 mm light path, as used in the Thomas Roto-Cell. By means of the precisely located window of the carrier, the light beam is reduced slightly in height and passes through the cell just above its bottom. This arrangement decreases the required sample size while retaining adequate energy for measurements. Constructed to ensure reproducible results by simply inserting carrier into sample chamber firmly so that the light shutter at bottom is completely opened. Made of nickel-plated brass, with handle at top and clip for retaining cell. Complete with Absorption Cell of Corex glass and Cover of polished plate glass.....35.25

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9085-W. DIDYMIUM CALIBRATION STANDARD. For checking wavelength scale calibration and meter performance of B. & L. "Spectronic 20" Spectrophotometer-Colorimeter. Consisting of a Corning No. 1–60 didymium glass filter mounted in end of phenolic plastic holder, approximately 13 mm x 13 mm x 100 mm long. Window in opposite end of the holder provides unobstructed air path for light beam when holder is inverted, for setting meter reading at 100% transmittance. Standard fits directly into Sample Holder as supplied with "Spectronic 20." Complete with directions for use, including spectral transmission curve for the filter.....9.00

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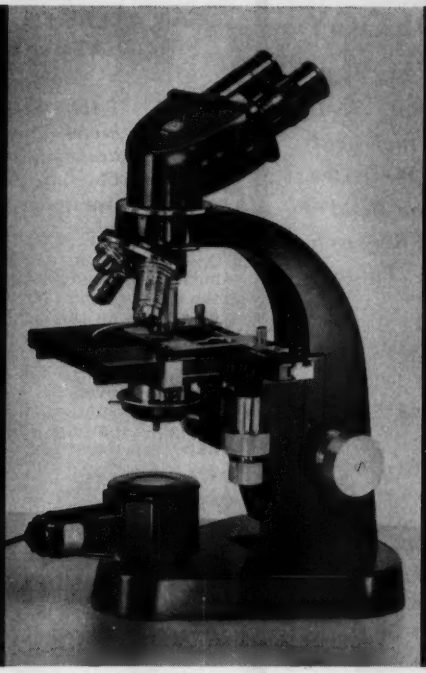

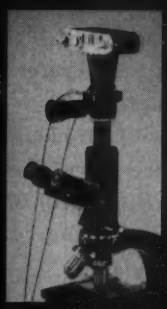

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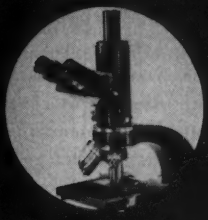

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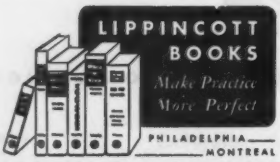

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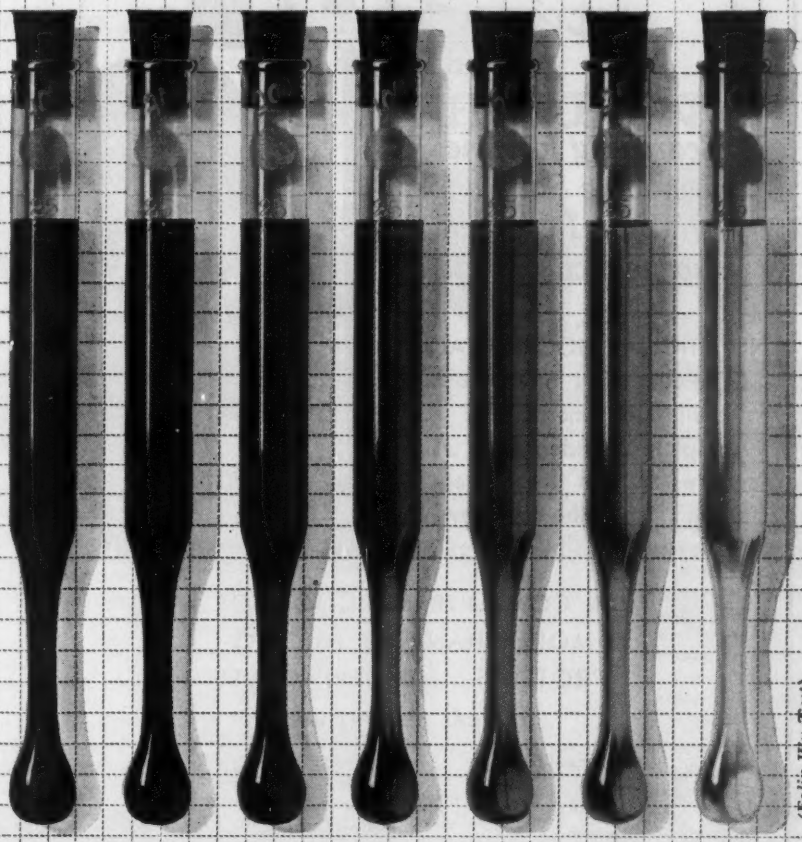

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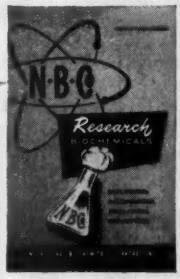

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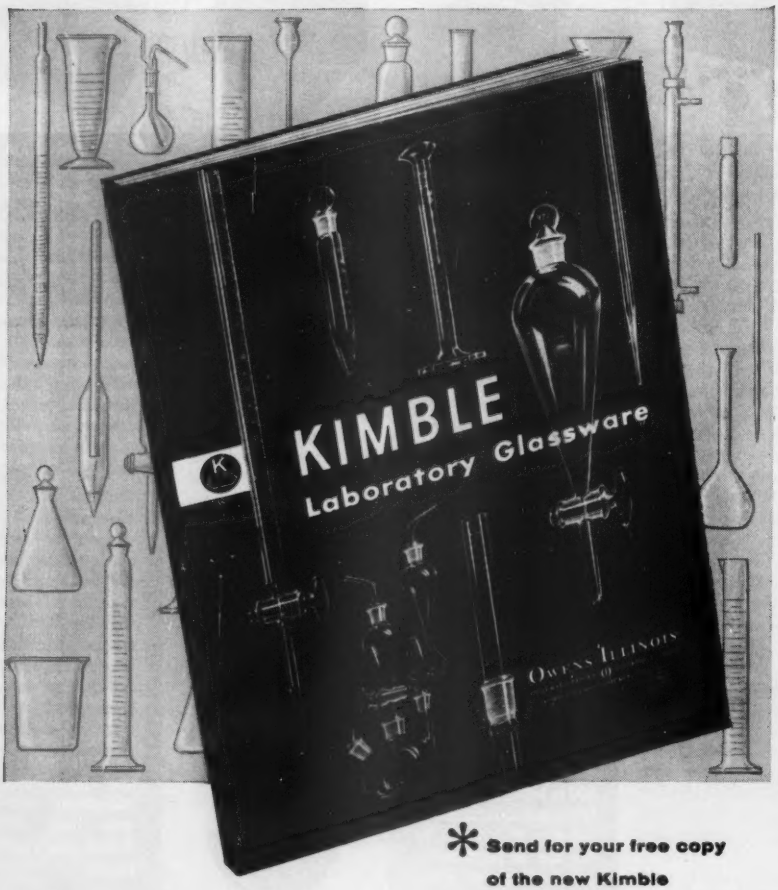

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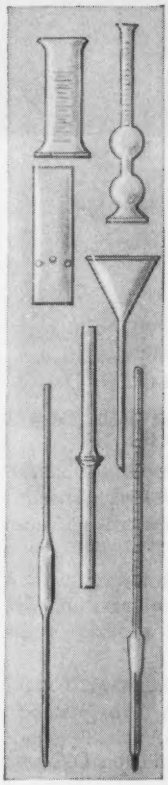

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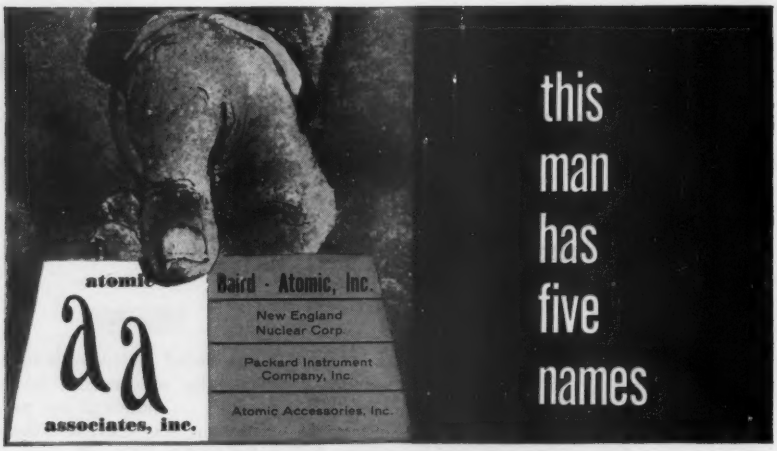

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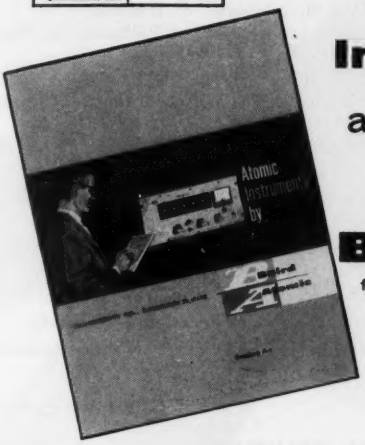

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Editor: C. E. Clifton *Associate Editors:* S. Raffel, R. Y. Stanier

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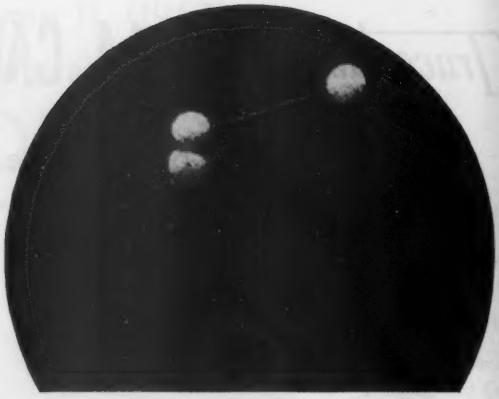

Electron Micrograph showing segments of threadlike molecule of desoxyribose nucleic acid from calf thymus. Large particles are polystyrene spheres about 800 Angstroms in diameter. Judged from length of shadows, the nucleic acid molecule is about 20 Angstroms in dia. *Micrograph, courtesy Professor Cecil E. Hall, Associate Professor of Biology, Massachusetts Institute of Technology.*

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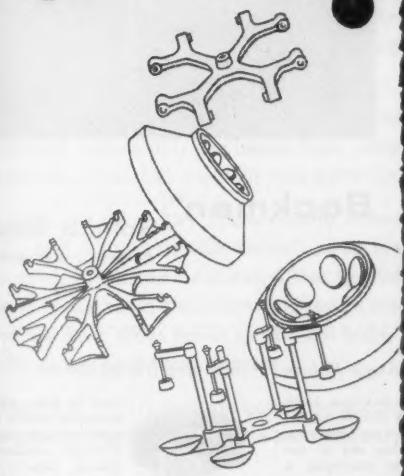

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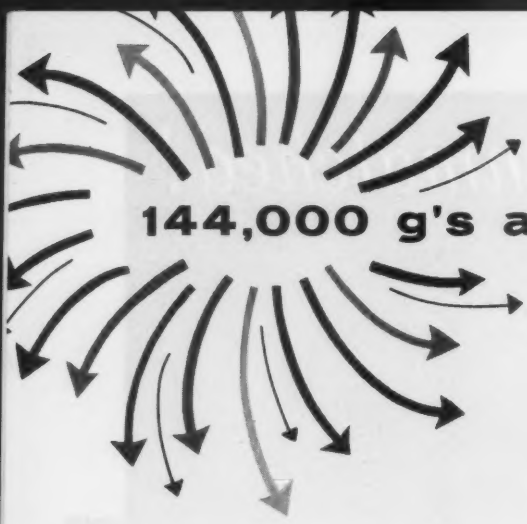

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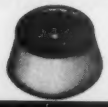

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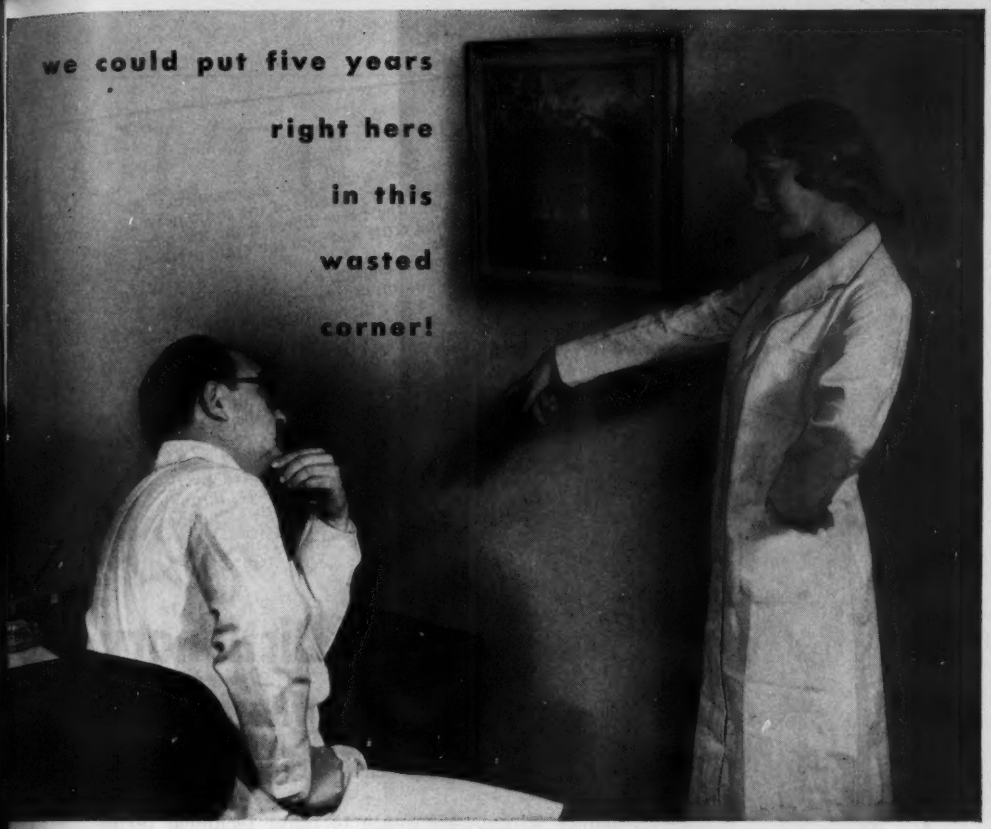

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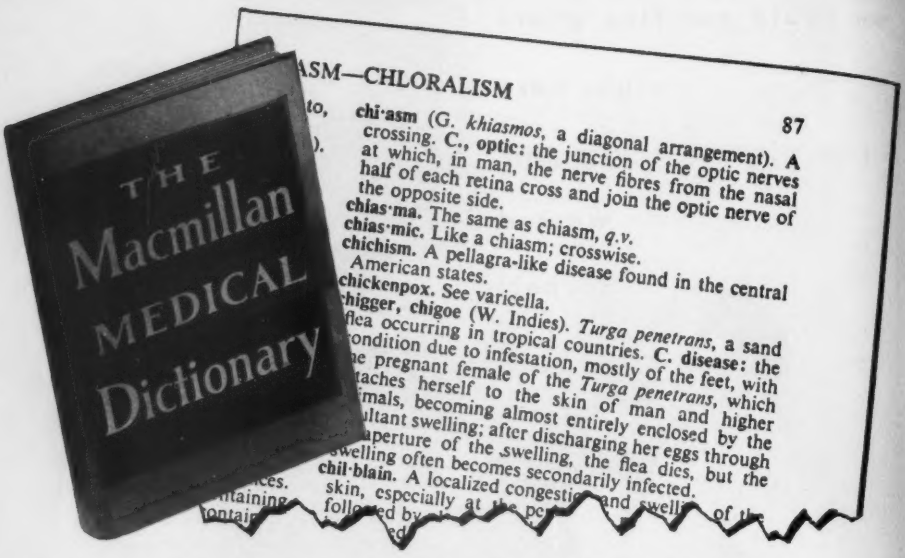

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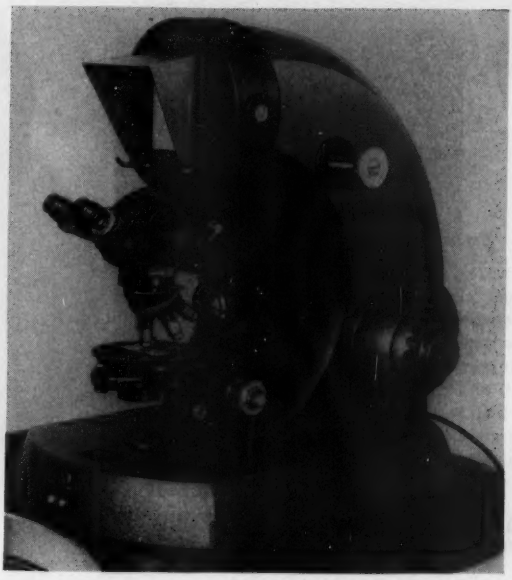

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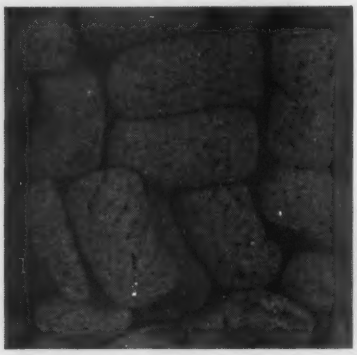

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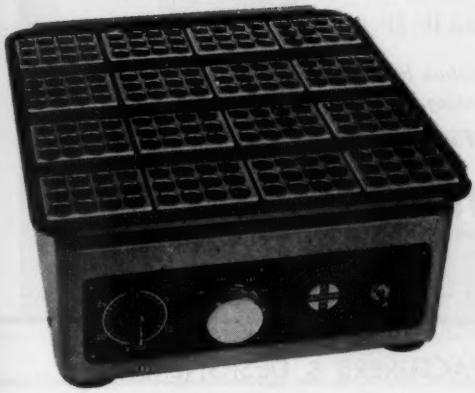

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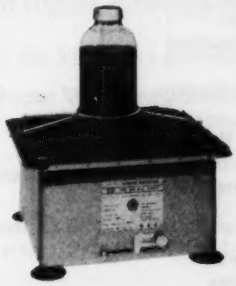

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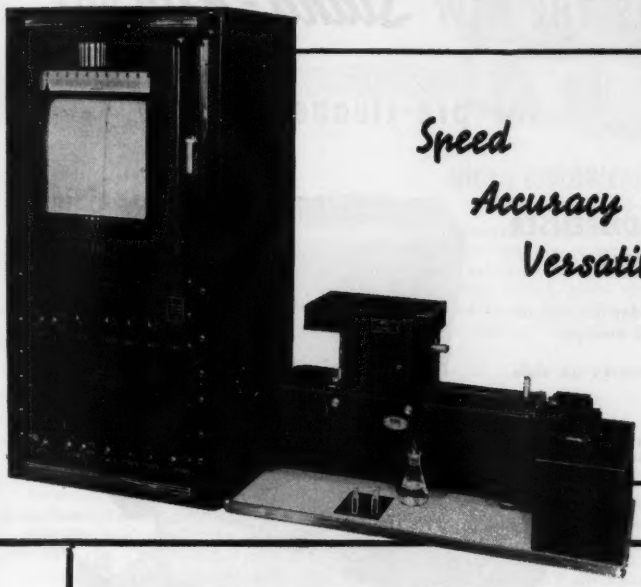

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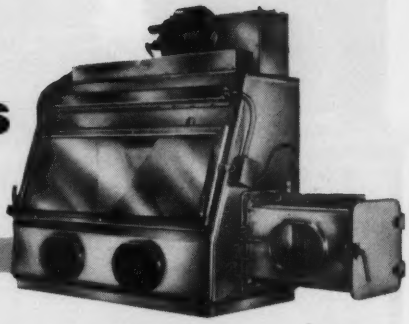

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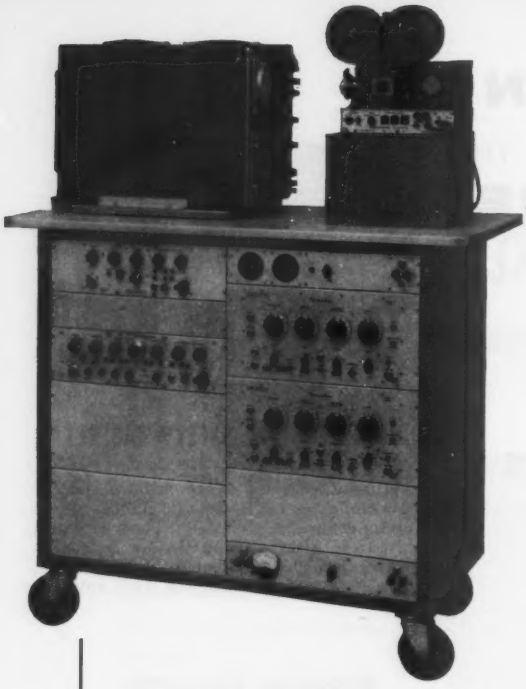

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- C 4 KYMOGRAPH CAMERA.
- S 4 STIMULATORS.
- P 5 A.C. PRE-AMPLIFIERS.
- P 6 D.C. PRE-AMPLIFIER WITH HIGH IMPEDANCE PROBE.
- LS 1 LOUDSPEAKER MONITOR.
- BC 2 BATTERY CHARGER.

OTHER INSTRUMENTS

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- P 7 D.C. HIGH IMPEDANCE PROBE.
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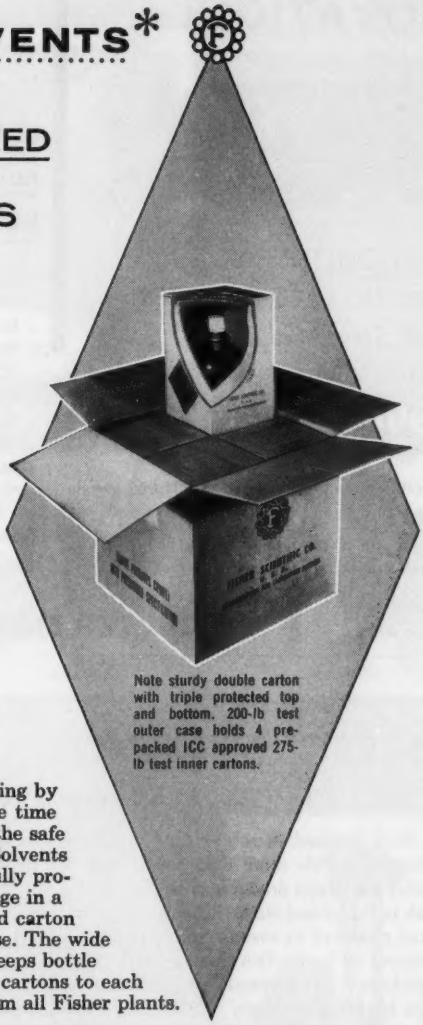

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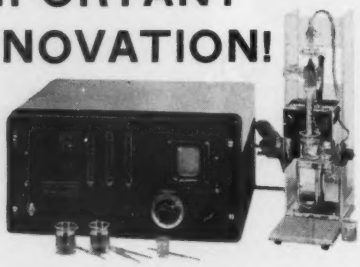

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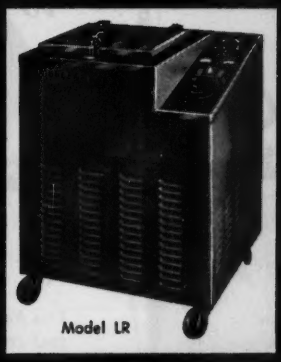
Swinging Cup	95cc (8x12cc)	12,000	21,500

NOTE: Adapters available for smaller tubes.



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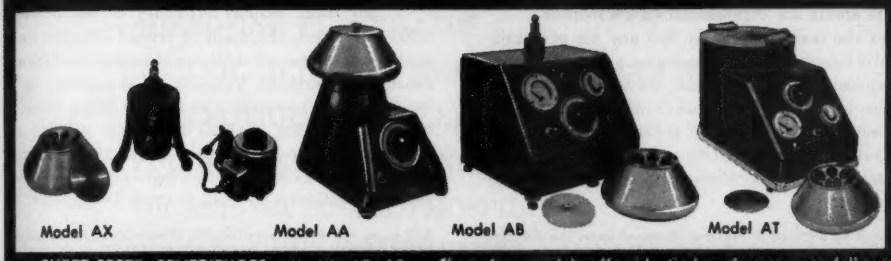

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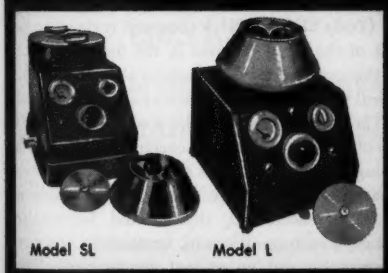

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The last lists to reach subscribers before the annual meeting are:

- FEBRUARY LIST OF CANDIDATES
  Information to be included must reach the Washington office *before February 1.*

- MARCH LIST OF POSITIONS
  Information to be included must reach the Washington office *before March 1.*

News & Notes

FORTY-SECOND ANNUAL MEETING

Philadelphia, Pennsylvania
April 14–18, 1958

The 1958 Annual Meeting of the Federation will be held April 14–18 in Philadelphia. Scientific sessions will open at 1:30 P. M., Monday, April 14, and will continue through Friday afternoon, April 18. The center for scientific sessions will be Convention Hall, with several additional session rooms at the University of Pennsylvania (Museum Auditorium and Irvine Auditorium) and at the Philadelphia General Hospital. The motion picture session is scheduled for Monday evening, April 14; the Federation Joint Session, Tuesday evening, April 15. Federation Board and Society Council and committee meetings will be held Sunday and Monday, April 13 and 14.

HEADQUARTERS HOTELS

Headquarters hotels will be the Sheraton (Biochemistry and Nutrition), Bellevue Stratford (Pathology and Immunology) and Benjamin Franklin (Physiology and Pharmacology). Information on hotel rates and reservation forms will be distributed to members by the Society Secretaries; additional forms may be obtained from the Federation Office, 9650 Wisconsin Avenue, Washington 14, D. C. A Housing Bureau will serve members and non-members attending the Federation Meeting. Please use the official hotel reservation form, and address requests to the FASEB Housing Bureau, Penn Square Building, Philadelphia 7, Pennsylvania. Confirmations will be forwarded directly from the Bureau.

PAPERS FOR THE PROGRAM

Abstracts of papers to be printed in FEDERATION PROCEEDINGS must be submitted through the Secretary of the Society of membership and must reach him *not later than January 1, 1958*. The Federation rules for submission of titles and abstracts appear below; information regarding rules governing presentation of papers on each Society's program can be secured from the Society Secretary. There will be intersociety sessions and intersociety symposia.

REGISTRATION INFORMATION

Registration desks will be located in the headquarters hotels on Sunday, April 13, from 9:00 A.M.–9:00 P.M., and on Monday from

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Nominal Capacity
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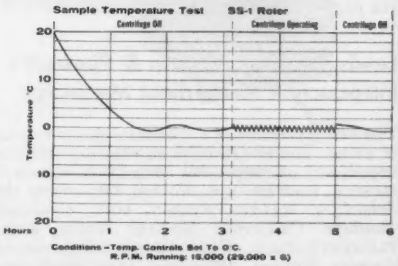

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5:00–9:00 P.M. Monday to Friday noon, registration will be in Convention Hall, 8:00 A.M.–5:00 P.M. Members of the Federated Societies, non-member biologists and physicians who wish to attend the meeting may register. The badge issued at the registration desks must be worn to secure admission to scientific sessions and other activities. Copies of FEDERATION PROCEEDINGS, March 1958 (Part I—Abstracts, Part II—Program) and tickets to special functions will be on sale.

A visible index of registrants, together with a message center for distribution of mail and personal messages will be in Convention Hall.

EXHIBITS

Exhibits will be located in the Grand Exhibition Hall of Convention Hall. Inspection hours will be from 9:00 A.M.–5:00 P.M., Monday through Thursday, April 14–17, and from 9:00 A.M.–1:00 P.M. on Friday, April 18.

SPECIAL FUNCTIONS

The Federation Office will assist with arrangements for meal functions and meetings of informal groups. Reservation forms and information are available from the Federation Office, 9650 Wisconsin Avenue, Washington 14, D. C. Those groups desiring notice in the Program of time and location of their meetings must advise the Federation Office not later than January 30, 1958.

PLACEMENT SERVICE

The Federation Placement Service will again offer interview facilities to employers who wish to schedule personal interviews with candidates present in Philadelphia and registered with the Service. Candidates for positions who wish to use this service and to register in advance should write to the Federation Placement Service, 9650 Wisconsin Avenue, Washington 14, D. C. The last list of available candidates to be prepared before the annual meeting will be that of February 1958. Candidates who wish to be included must file their completed application forms before February 1. The last list of available positions will be that of March 1958. To have a description of positions entered in this list, completed employer's registration cards covering these positions must reach the Washington Office by March 1. Advance registration for the meeting can be made by employers up to March 28.

FEDERATION RULES FOR ABSTRACTS

1. No individual may present orally more than one 10-minute scientific paper.

2. An author's name may not appear more than once in the lists of papers "Read by Title".

3. Request of a member for transfer of a paper to or from a Society which restricts its program

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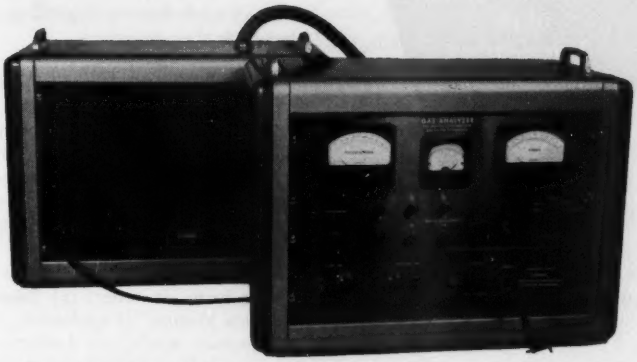

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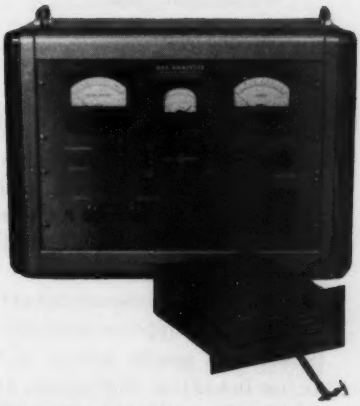

The discharge tube-filter-photocell subassembly is easily removed from the instrument proper for use as a remote pick up.

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will not be granted if the member is responsible for the appearance of another paper on any Society's program.

4. Abstracts of papers to be read by title will not be printed in FEDERATION PROCEEDINGS.

NOTE: Your attention is called to the special rules of each Society regarding presentation of papers on their programs.

RULES FOR PREPARATION OF ABSTRACTS

1. Abstract *must not* exceed 250 words including title, authors' names, institutional connections and acknowledgments. The text should consist of a single paragraph. Mathematical or structural chemical formulae, tables, figures or footnotes *cannot* be used. References and acknowledgments must be included in the text.

2. Abstracts must be set up to include the following items, in order: (a) "Read by Title" or "Motion Picture" if applicable; (b) Title—avoid unnecessary words; (c) Author/s: name of each non-member joint author with a member is to be followed by an asterisk (*), denoting "by invitation". Name/s of non-member author/s or a paper introduced by a member must be followed by "(intr. by . . .)"; (d) Laboratory of origin—as brief as possible. For examples, see FEDERATION PROCEEDINGS, last March issue, Part I. The abstract *must* by typed in *double space throughout*, including title, and submitted on the proper form.

3. Abstract must be submitted through the Secretary of the Society of membership. It should be letter perfect since there will be no opportunity for proofreading by the authors. If acknowledgment of receipt of abstract is desired, enclose a self-addressed postal card.

4. For the author index enclose one 3 x 5 card for each author with the name and initials in the upper left-hand corner. Example: Smith, T. J.

5. For the subject index enclose another 3 x 5 card listing the terms in the abstract (one or two words each) which you would like in the index.

REPRINTS

If reprints are desired, the reprint order form distributed by the Society Secretaries must be completed in full, attached to a copy of the abstract and mailed to the Federation Secretary, 9650 Wisconsin Avenue, Washington 14, D. C.

AMATEUR MUSICIANS AND AFICIONADOS: The Federation's Amateur Chamber Music Players propose to congregate again at the Philadelphia meeting. Anyone interested in participation or knowing of prospects who will attend the 1958 meeting should so inform W. E. Cohn, Biology Division, Oak Ridge National Laboratory, Oak Ridge, Tenn., who is acting as impresario and general manager.

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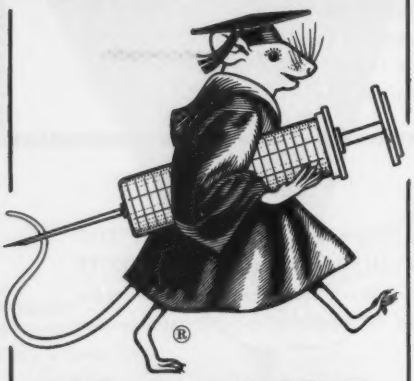

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American Physiological Society

The ninth fall meeting of the APS was held September 3–6, 1957, at the State University of Iowa, Iowa City. The meeting was arranged by a local committee under the chairmanship of Dr. Harry M. Hines. Registered attendance was 512.

The meeting was preceded on September 2 by a refresher course on "The Teaching of Neurophysiology of Medical Students" conducted by Drs. J. M. Brookhart, V. B. Mountcastle and W. L. Nastuk. Approximately 250 attended the refresher course.

There were 235 papers presented at 22 scientific sessions. There were several demonstrations and exhibits. There was a special symposium on "The Role for Senior Physiologists," with Dr. D. B. Dill as Chairman. The second Bowditch Lecture was given by Dr. Bodil Schmidt-Nielsen. Her lecture title was "The Resourcefulness of Nature in Physiological Adaptation to Environment." The Past President's address, entitled "The Human Side of the Physiologist, Prejudice and Poetry," was given by Dr. Alan Burton.

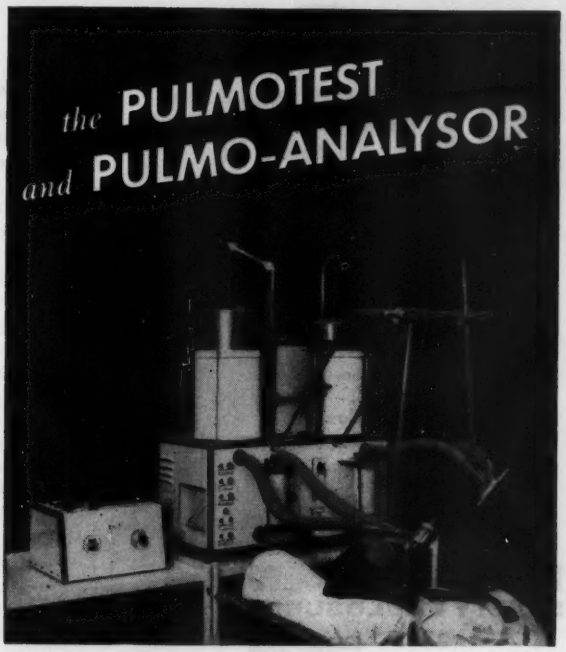
American Society for Pharmacology and Experimental Therapeutics

The Fall Meeting of the American Society for Pharmacology and Experimental Therapeutics was held in Baltimore, Maryland, September 4–7, 1957, with the largest attendance record in the history of the Society. A total of 734 persons registered for this meeting, which honored John Jacob Abel, the first full-time University Professor of Pharmacology in the United States. The Committee on Local Arrangements was headed by Dr. E. K. Marshall, Jr., Honorary Chairman, and Dr. Gilbert H. Mudge, Chairman. The Abel Celebration Committee was under the chairmanship of Dr. Marshall.

In addition to regular scientific sessions, many of which had as chairmen past Abel Award winners, there were featured three Symposia: "Symposium on the Teaching of Pharmacology—The Kidney," with Dr. Alfred Gilman as Moderator; "John J. Abel Centennial Symposium," with Dr. H. B. Van Dyke as Chairman; and "Symposium on Neurotransmitter Mechanisms," with Dr. Stephen W. Kuffer as Chairman.

Following the Abel Centennial Dinner on Thursday evening, September 5, a speech by Dr. Abel given at the Johns Hopkins University on December 12, 1930, and recorded on film, was presented.

The American Institute of Nutrition has announced that nominations are invited for the 1958 Borden Award in Nutrition and the 1958 Osborne and Mendel Award for research in nutrition. Nominations may be made by anyone and must be submitted by January 1, 1958, to the Chairman of the appropriate nominating committee. Member-



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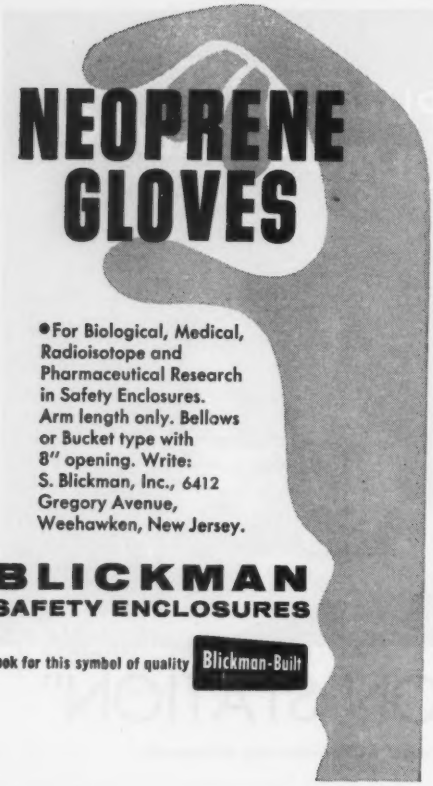

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ship in the American Institute of Nutrition is not a requirement for eligibility and there is no limitation as to age.

For full details as to the procedure for nomination see the September and October issues of the *Journal of Nutrition*.

...XXI International Congress of Physiological Sciences—Preparations for this Congress, to be held in Buenos Aires, Argentina, August 9 to 15, 1959, are proceeding actively under the leadership of Dr. Bernardo Houssay, who will be President of the Congress. This is the first such Congress to be held in the Southern Hemisphere. Financial support for the considerable expenses of the undertaking are being sought from various sources, including the drug manufacturers of North America who have generously supported previous Congresses. As this goes to press, contributions have already been received from Burroughs Wellcome & Co., Inc.; Ciba Pharmaceutical Products, Inc.; Hoffmann-La Roche, Inc.; Eli Lilly & Company; Merck & Company, Inc.; Merrell-National (Overseas) Laboratories; Miles Laboratories, Inc.; Olin Mathieson International Corporation; Squibb Institute for Medical Research; and Upjohn Company. These are proving of inestimable value to Dr. Houssay and his colleagues in preparing for this Congress.

...Fourth International Congress of Biochemistry—The National Science Foundation, the American Society of Biological Chemists, and the Division of Biological Chemistry of the American Chemical Society are cooperating to support the travel of a limited number of American scientists to this Congress, to be held September 1 to 7, 1958 in Vienna, Austria. The closing date for the receipt of applications is February 1, 1958. Application blanks are available from the National Science Foundation, Washington 25, D. C.

...The Fourth International Congress on Nutrition, organized under the auspices of the International Union of Nutritional Sciences, was held in Paris July 25 to August 1, 1957. The opening session on July 26 featured the following speakers: Professor E. F. Terroine, President of the Congress; E. J. Bigwood, President of the International Union of Nutritional Sciences; W. R. Aykroyd, Director, Nutrition Division, United Nations Food and Agriculture Organization; and R. C. Burgess, World Health Organization. At the closing session on August 1, the following were on the program: Professor Terroine; L. J. Harris, Secretary General of the International Union; E. J. Bigwood; D. P. Cuthbertson, Rowett Research Institute, Scotland, successor to Dr. Bigwood, retiring President of the International Union; and C. Glen King, American Institute of Nutrition.

A total of 1,000 active members registered for the Congress. Scientific sessions followed the opening session; 337 papers were given in addition to 9 introductory reports.

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The Executive Committee of the International Union of Nutritional Sciences enthusiastically and unanimously accepted the invitation of the American Institute of Nutrition to hold the Fifth International Congress in Washington, D. C., September 1-7, 1960.

...15th International Zoological Congress—The National Science Foundation, the American Institute of Biological Sciences, and the American Society of Zoologists are cooperating to support the travel of a limited number of American scientists to this Congress, July 15–23, 1958, to be held in London, England. Application blanks are available from the American Institute of Biological Sciences, 2000 P Street, N.W., Washington 6, D. C., and completed forms must be returned to the A.I.B.S. no later than January 1, 1958. Any active American zoologist, regardless of his society affiliations, is eligible.

...An International Symposium on Enzymes was held in Tokyo and Kyoto, Japan, October 16–23, 1957 under the auspices of the International Union of Biochemistry. Support for travel was granted by the National Science Foundation; the National Institutes of Health, U. S. Public Health Service, Department of Health, Education and Welfare; the Atomic Energy Commission; and the Office of Naval Research. Funds were administered by a committee of the Federation composed of representatives of the Division of Biological Chemistry of the American Chemical Society and the American Society of Biological Chemists. Travel aid was given the following American scientists:

Arnold K. Balls, Purdue University; Robert S. Bandurski, Michigan State University; Andrew A. Benson, Pennsylvania State University; P. D. Boyer, University of Minnesota; John M. Buchanan, Massachusetts Institute of Technology; Britton Chance, University of Pennsylvania; Michael Doudoroff, University of California; Howard Gest, Western Reserve University; David E. Green, Institute of Enzyme Research; I. C. Gunsalus, University of Illinois; Osamu Hayaishi, National Institutes of Health; Herman M. Kalckar, National Institutes of Health; Martin D. Kamen, Washington University Medical School; Edna B. Kearney, Henry Ford Hospital; W. Wayne Kielley, National Institutes of Health; Walter E. Knox, Harvard Medical School; Arthur Kornberg, Washington University Medical School; Edwin G. Krebs, University of Washington; Albert Lehninger, Johns Hopkins School of Medicine; Boris Magasanik, Harvard Medical School; H. S. Mason, University of Oregon Medical School; Karl Meyer, Columbia University; Manuel F. Morales, Naval Medical Research Institute; J. B. Neilands, University of California; Fritz Schlenk, Argonne National Laboratory; Victor A. Najjar, Vanderbilt University; Thomas P. Singer, Henry Ford Hospital; Esmond E. Snell,

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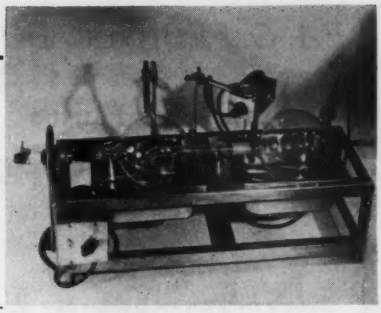

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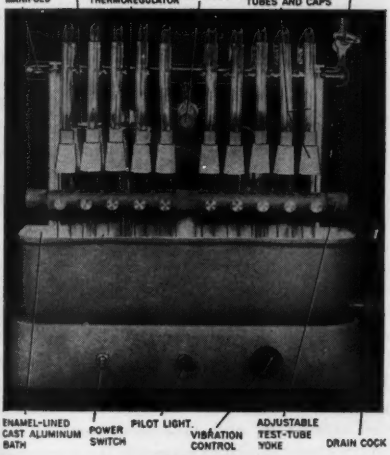

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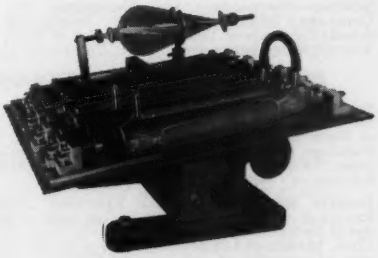

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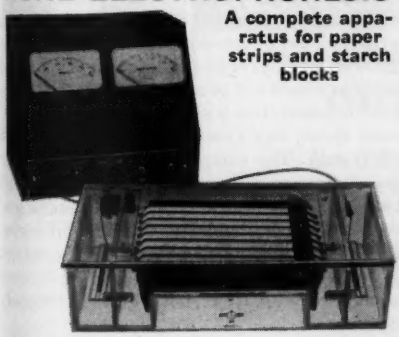

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NSF Research Proposal

The Division of Biological and Medical Sciences of the National Science Foundation announces that the next closing date for receipt of research proposals in the life sciences is January 15, 1958. In addition to funds for the support of basic research in the life sciences, limited funds will be available during Fiscal Year 1958 (July 1, 1957-June 30, 1958) for the support of research facilities and programs at biological field stations. Inquiries should be addressed to National Science Foundation, Washington 25, D. C.

The Public Health Service has announced a new program of financial support for advanced training of research scientists in the field of neurological and sensory disorders. The new program, designed to help research scientists obtain additional specialized training for careers in teaching or research, will be conducted by the National Institute of Neurological Diseases and Blindness, National Institutes of Health. Application forms and instructions may be obtained by writing to the Chief, Extramural Programs Branch, National Institute of Neurological Diseases and Blindness, Bethesda, Md.

The Lalor Foundation is offering forty summer awards for advanced study and research employing chemistry or physics to attack problems in any of the biological sciences. Preference will be given to younger men and women and to those who present programs in less explored fields. The upper age limit for appointment is forty years. For eligibility the applicant should have the experience and indicated research productivity corresponding to the Ph.D. degree and also have demonstrated an aptitude for teaching in science.

Inquiries and requests for applications should be addressed to the Director of the Lalor Foundation, 4400 Lancaster Pike, Wilmington 5, Del. Final date for receipt of completed applications is January 14, 1958.

The American Goiter Association offers the Van Meter Prize Award of $300 and two honorable mentions for the best essays submitted concerning original work on problems related to the thyroid gland. The award will be made at the annual meeting of the Association which will be held in the St. Francis Hotel, San Francisco, Calif., June 17, 18 and 19, 1958. The competing essays may cover either clinical or research investigations, should not exceed 3,000 words in length and must be presented in English. Duplicate typewritten copies, double spaced, should be sent to the Secretary, Dr. John C. McClintock, 149½ Washington Avenue, Albany 10, N. Y., not later than February 1, 1958.

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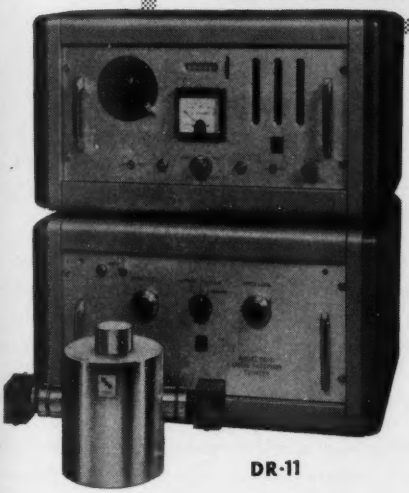

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Federation Headquarters Committee—L. N. KATZ, Physiology (1958), *Chairman*; ROSS MACCARDLE, Pathology (1958), C. B. ANFINSEN, JR., Biochemistry (1959), J. H. ROE, Nutrition (1959), K. K. CHEN, Pharmacology (1960), GEOFFREY EDSALL, Immunology (1960).

Public Information Committee—R. J. WINZLER, *Chairman*; B. H. WAKSMAN, SIMON RODBARD, ALFRED GILMAN, R. W. WISSLER, R. W. ENGEL, EDWARD L. TATUM.

Exhibitors Advisory Committee to the Federation—W. H. SEALE, *Chairman*; J. F. LUBBEN, K. ERICSON, E. G. WHITEHEAD, M. E. SHEPHERD, T. LANAHAN, S. K. HERLITZ; and Members of the Secretaries Committee.

REPRESENTATIVES TO ORGANIZATIONS

Council of the American Association for the Advancement of Science—K. K. CHEN (1960), ORR REYNOLDS (1958).

American Documentation Institute—M. O. LEE.

Scientific Manpower Commission—M. O. LEE (1959), CHAUNCEY D. LEAKE (1960).

Future Scientists of America Foundation—RAY G. DAGGS (1960).

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. MELTZER, *Chairman*, and A. J. CARLSON, *Secretary*, The Physiological Society. A. B. MACALLUM and P. A. SHAFFER, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society.

St. Louis, Dec. 27–30, 1914

G. LUSK, *Chairman*, and P. A. SHAFFER, *Secretary*, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society. R. M. PEARCE and G. H. WHIPPLE, The Pathological Society. W. B. CANNON and A. J. CARLSON, The Physiological Society.

Boston, Dec. 26–29, 1915

TORALD SOLLMANN, *Chairman*, and JOHN AUER, *Secretary*, The Pharmacological Society. THEOBALD SMITH and PEYTON ROUS, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and P. A. SHAFFER, The Biochemical Society.

New York, Dec. 27–30, 1916

SIMON FLEXNER, *Chairman*, and PEYTON ROUS, *Secretary*, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and STANLEY R. BENEDICT,

The Biochemical Society. REID HUNT and J. AUER, The Pharmacological Society.

Minneapolis-Rochester, Dec. 27-29, 1917

FREDERIC S. LEE, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. CARL L. ALSBERG, and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and L. G. ROWNTREE, The Pharmacological Society. LUDVIG HEKTOEN and HOWARD T. KARSNER, The Pathological Society.

Baltimore, April 24-26, 1918

CARL L. ALSBERG, *Chairman*, and STANLEY R. BENEDICT, *Secretary*, The Biochemical Society. REID HUNT and E. D. BROWN, The Pharmacological Society. H. GIDEON WELLS and HOWARD T. KARSNER, The Pathological Society. FREDERIC S. LEE and CHARLES W. GREENE, The Physiological Society.

Cincinnati, Dec. 29-31, 1919

A. S. LOEVENHART, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. W. G. MACCALLUM and HOWARD T. KARSNER, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society.

Chicago, Dec. 28-30, 1920

WILLIAM H. PARK, *Chairman*, and HOWARD T. KARSNER, *Secretary*, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society. A. S. LOEVENHART and EDGAR D. BROWN, The Pharmacological Society.

New Haven, Dec. 28-30, 1921

J. J. MACLEOD, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. D. D. VAN SLYKE and VICTOR C. MEYERS, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. F. G. NOVY and WADE H. BROWN, The Pathological Society.

Toronto, Dec. 27-29, 1922

D. D. VAN SLYKE, *Chairman*, and VICTOR C. MYERS, *Secretary*, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. HOWARD T. KARSNER and WADE H. BROWN, The Pathological Society. J. J. R. MACLEOD and CHARLES W. GREENE, The Physiological Society.

St. Louis, Dec. 27-29, 1923

C. W. EDMUNDS, *Chairman*, and EDGAR D. BROWN, *Secretary*, The Pharmacological Society. E. L. OPIE and WADE H. BROWN, The Pathological Society. A. J. CARLSON and CHARLES W. GREENE, The Physiological Society. PHILIP A. SHAFFER and VICTOR C. MYERS, The Biochemical Society.

Washington, Dec. 29-31, 1924

ALFRED S. WARTHIN, *Chairman*, and E. B. KRUMBHAAR, *Secretary*, The Pathological Society. A. J. CARLSON and WALTER J. MEEK, The Physiological Society. P. A. SHAFFER and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society.

Cleveland, Dec. 28-30, 1925

A. J. CARLSON, *Chairman*, and WALTER J. MEEK, *Secretary*, The Physiological Society. H. C. SHERMAN and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. GEORGE H. WHIPPLE and E. B. KRUMBHAAR, The Pathological Society.

Rochester, N. Y., April 14-16, 1927

E. C. KENDALL, *Chairman*, and F. C. KOCH, *Secretary*, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. W. H. BROWN and E. B. KRUMBHAAR, The Pathological Society. J. ERLANGER and W. J. MEEK, The Physiological Society.

Ann Arbor, April 12-14, 1928

CARL VOEGTLIN, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. DAVID MARINE and CARL V. WELLER, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society.

Boston, Aug. 19-24, 1929

(The XIIIth International Physiological Congress)

EDWARD B. KRUMBHAAR, *Chairman*, and CARL V. WELLER, *Secretary*, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society.

Chicago, March 26-29, 1930

WALTER J. MEEK, *Chairman*, and ALFRED C. REDFIELD, *Secretary*, The Physiological Society. W. R. BLOOR and HOWARD B. LEWIS, The Bio-

chemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society. WILLIAM F. PETERSEN and CARL V. WELLER, The Pathological Society.

Montreal, April 8–11, 1931

W. R. BLOOR, *Chairman*, and H. B. LEWIS, *Secretary*, The Biochemical Society. GEORGE B. WALLACE and E. D. BROWN, The Pharmacological Society. FREDERICK L. GATES and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO S. LUCKHARDT, The Physiological Society.

Philadelphia, April 27–30, 1932

GEORGE B. WALLACE, *Chairman*, and V. E. HENDERSON, *Secretary*, The Pharmacological Society. SAMUEL R. HAYTHORN and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO B. LUCKHARDT, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society.

Cincinnati, April 10–12, 1933

PEYTON ROUS, *Chairman*, and C. PHILLIP MILLER, *Secretary*, The Pathological Society. ARNO B. LUCKHARDT and FRANK C. MANN, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society. WM. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society.

New York, March 28–31, 1934

ARNO B. LUCKHARDT, *Chairman*, FRANK C. MANN, *Secretary*, and ALEXANDER FORBES, *Treasurer*, The Physiological Society. W. M. CLARK and H. A. MATTILL, The Biochemical Society. W. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society. CARL V. WELLER and C. PHILLIP MILLER, The Pathological Society.

Detroit, April 10–13, 1935

W. M. CLARK, *Chairman*, H. A. MATTILL, *Secretary*, and C. H. FISKE, *Treasurer*, The Biochemical Society. CHARLES W. GREENE and FRANK C. MANN, The Physiological Society. R. A. HATCHER and E. M. K. GEILING, The Pharmacological Society. S. BURT WOLBACH and SHIELDS WARREN, The Pathological Society.

Washington, March 25–28, 1936

V. E. HENDERSON, *Chairman*, E. M. K. GEILING, *Secretary*, and C. M. GRUBER, *Treasurer*, The Pharmacological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. H. B. LEWIS and H. A. MATTILL, The Biochemical Society. OSKAR KLOTZ and SHIELDS WARREN, The Pathological Society.

Memphis, April 21–24, 1937

ALPHONSE R. DOCHEZ, *Chairman*, and SHIELDS WARREN, The Pathological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. HOWARD B. LEWIS and H. A. MATTILL, The Biochemical Society. V. E. HENDERSON and E. M. K. GEILING, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Baltimore, March 30–April 2, 1938

WILLIAM T. PORTER, *Honorary President;* WALTER E. GARREY, *Chairman*, and ANDREW C. IVY, The Physiological Society. GLENN E. CULLEN and H. A. MATTILL, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. D. R. HOOKER, *Secretary*.

Toronto, April 26–29, 1939

GLENN E. CULLEN, *Chairman*, and CHARLES G. KING, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. WALTER E. GARREY and ANDREW C. IVY, The Physiological Society. D. R. HOOKER, *Secretary*.

New Orleans, March 13–16, 1940

E. M. K. GEILING, *Chairman*, and G. PHILIP GRABFIELD, The Pharmacological Society. ERNEST W. GOODPASTURE and PAUL R. CANNON, The Pathological Society. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. D. R. HOOKER, *Secretary*.

Chicago, April 15–19, 1941

SHIELDS WARREN, *Chairman*, and H. P. SMITH, The Pathological Society. THORNE M. CARPENTER and L. A. MAYNARD, The Institute of Nutrition. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. E. M. K. GEILING and G. PHILIP GRABFIELD, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Boston, March 31–April 4, 1942

ALBERT G. HOGAN, *Chairman*, and ARTHUR H. SMITH, The Institute of Nutrition. PHILIP BARD and CARL J. WIGGERS, The Physiological Society. RUDOLPH J. ANDERSON and ARNOLD K. BALLS, The Biochemical Society. E. M. K. GEILING and R. N. BIETER, The Pharmacological Society. JESSE L. BOLLMAN and H. P. SMITH, The Pathological Society. SHIELDS WARREN, *Ex-Chairman*. D. R. HOOKER, *Secretary*.

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

PHILIP BARD, *Chairman*, and WALLACE O. FENN, The Physiological Society. E. A. DOISY and ARNOLD K. BALLS, The Biochemical Society. E. K. MARSHALL, JR. and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. LEONARD A. MAYNARD and ARTHUR H. SMITH, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Atlantic City, March 11–15, 1946

PHILIP BARD, *Chairman*; WALLACE O. FENN, The Physiological Society. A. BAIRD HASTINGS and ARNOLD K. BALLS, The Biochemical Society. ERWIN E. NELSON and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. WILLIAM C. ROSE and H. E. CARTER, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Chicago, May 18–22, 1947

A. BAIRD HASTINGS, *Chairman*, and OTTO A. BESSEY, The Biochemical Society. MAURICE H. SEEVERS and HARVEY B. HAAG, The Pharmacological Society. PAUL R. CANNON and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. ARTHUR H. SMITH and H. E. CARTER, The Institute of Nutrition. MICHAEL HEIDELBERGER and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. WILLIAM H. CHAMBERS, *Secretary*.

Atlantic City, March 15–19, 1948

MAURICE H. SEEVERS, *Chairman*, and HARVEY B. HAAG, The Pharmacological Society. DOUGLAS H. SPRUNT and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. R. M. BETHKE and H. E. CARTER, The Institute of Nutrition. LLOYD D. FELTON and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. WILLIAM H. CHAMBERS, *Secretary*.

Detroit, April 18–22, 1949

H. P. SMITH, *Chairman*, and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. E. M. NELSON and J. H. ROE, The Institute of Nutrition. MICHAEL HEIDELBERGER and JULES FREUND, The Association of Immunologists. MAURICE B. VISSCHER and D. B. DILL, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. CARL A. DRAGSTEDT and HARVEY B. HAAG, The Pharmacological Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 17–21, 1950

C. G. KING, *Chairman*, and J. H. ROE, The Institute of Nutrition. THOMAS FRANCIS, JR., and JULES FREUND, The Association of Immunologists. CARL J. WIGGERS and D. B. DILL, The Physiology Society. CARL F. CORI and RICHARD W. JACKSON, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JOHN G. KIDD and SIDNEY C. MADDEN, The Pathology Society. M. O. LEE, *Federation Secretary*.

Cleveland, April 29–May 3, 1951

GEOFFREY EDSALL, *Chairman*, and JULES FREUND, The Association of Immunologists. D. B. DILL and R. W. GERARD, The Physiology Society. H. B. VICKERY and E. H. STOTZ, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JAMES F. RINEHART and SIDNEY C. MADDEN, The Pathology Society. W. H. GRIFFITH and J. H. ROE, The Institute of Nutrition. M. O. LEE, *Federation Secretary*.

New York City, April 14–18, 1952

D. B. DILL, *Chairman*, H. E. ESSEX, R. W. GERARD, The Physiology Society. VINCENT DU VIGNEAUD, E. H. STOTZ, H. B. VICKERY, The Biochemistry Society. MCKEEN CATTELL, C. C. PFEIFFER, CARL F. SCHMIDT, The Pharmacology Society. F. S. ROBSCHEIT-ROBBINS, R. L. HOLMAN, J. F. RINEHART, The Pathology Society. C. M. MCCAY, JAMES M. ORTEN, W. H. GRIFFITH, The Institute of Nutrition. COLIN M. MACLEOD, JOHN Y. SUGG, GEOFFREY EDSALL, The Association of Immunologists. M. O. LEE, *Federation Secretary*.

FORMER FEDERATION BOARDS

Chicago, April 6–10, 1953

VINCENT DU VIGNEAUD, *Chairman;* H. A. MATTILL, D. W. WILSON, E. H. STOTZ, The Biochemistry Society. K. K. CHEN, C. C. PFEIFFER, MCKEEN CATTELL, The Pharmacology Society. S. C. MADDEN, R. L. HOLMAN, F. S. ROBSCHEIT-ROBBINS, The Pathology Society. P. L. DAY, J. M. ORTEN, C. M. MCCAY, The Institute of Nutrition. J. F. ENDERS, JOHN Y. SUGG, C. M. MACLEOD, The Association of Immunologists. E. M. LANDIS, E. F. ADOLPH, R. W. GERARD, The Physiology Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 11–16, 1954

K. K. CHEN, *Chairman*; H. B. HAAG, C. C. PFEIFFER, The Pharmacology Society. D. M. ANGEVINE, C. C. ERICKSON, S. C. MADDEN, The

Pathology Society. C. A. ELVEHJEM, J. M. ORTEN, P. L. DAY, The Institute of Nutrition. T. P. MAGILL, J. Y. SUGG, J. F. ENDERS, The Association of Immunologists. E. F. ADOLPH, H. E. ESSEX, E. M. LANDIS, The Physiology Society. D. W. WILSON, PHILIP HANDLER, VINCENT DU VIGNEAUD, The Biochemistry Society. M. O. LEE, *Federation Secretary*.

San Francisco, April 11–15, 1955

D. M. ANGEVINE, *Chairman*; R. L. HOLMAN, C. C. ERICKSON, The Pathology Society. G. R. COWGILL, R. W. ENGEL, C. A. ELVEHJEM, The Institute of Nutrition. A. M. PAPPENHEIMER, JR., F. S. CHEEVER, T. P. MAGILL, The Association of Immunologists. H. E. ESSEX, W. F. HAMILTON, E. F. ADOLPH, The Physiology Society. C. G. KING, PHILIP HANDLER, D. W. WILSON, The Biochemistry Society. C. M. GRUBER, C. C. PFEIFFER, H. B. HAAG, The Pharmacology Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 16–20, 1956

G. R. COWGILL, *Chairman*; R. W. ENGEL, W. H. SEBRELL, JR., The Institute of Nutrition. JULES FREUND, F. S. CHEEVER, A. M. PAPPENHEIMER, JR., The Association of Immunologists. W. F. HAMILTON, A. C. BURTON, H. E. ESSEX, The Physiology Society. J. M. LUCK, PHILIP HANDLER, C. G. KING, The Biochemistry Society. E. G. GROSS, C. C. PFEIFFER, C. M. GRUBER, The Pharmacology Society. H. L. STEWART, C. C. ERICKSON, R. L. HOLMAN, The Pathology Society. M. O. LEE, *Federation Secretary*.

Chicago, April 15–19, 1957

JULES FREUND, *Chairman*; M. W. CHASE, F. S. CHEEVER, The Association of Immunologists. A. C. BURTON, L. N. KATZ, W. F. HAMILTON, The Physiology Society. H. E. CARTER, PHILIP HANDLER, J. M. LUCK, The Biochemistry Society. HARRY BECKMAN, H. C. HODGE, E. G. GROSS, The Pharmacology Society. F. W. HARTMAN, C. C. ERICKSON, H. L. STEWART, The Pathology Society. R. R. WILLIAMS, R. W. ENGEL, W. H. SEBRELL, JR., The Institute of Nutrition. M. O. LEE, *Federation Secretary*.

FEDERATION CONSTITUTION AND BYLAWS

Adopted at the New York City Meeting, April 17, 1952

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is the Federation of American Societies for Experimental Biology.

ARTICLE II. *Purpose*

The purposes of the Federation are: to bring together investigators in biological and medical sciences represented by the member Societies; to disseminate information on the results of biological research through publications and scientific meetings; and to serve in other capacities in which the member Societies can function more efficiently as a group than as individual units.

ARTICLE III. *Membership*

SECTION 1. The constituent members of the Federation are, in order of seniority: The American Physiological Society; American Society of Biological Chemists, Inc.; American Society for Pharmacology and Experimental Therapeutics, Inc.; The American Society for Experimental Pathology; American Institute of Nutrition; The American Association of Immunologists.

SECTION 2. Other societies in the field of biological science may apply for membership, and may be admitted by unanimous consent of the Societies which are members at the time of application.

SECTION 3. Any constituent Society may withdraw from the Federation one year following written notification to the Federation Board of its intention.

ARTICLE IV. *Management*

The management of the Federation shall be vested in a Federation Board, on which each of the constituent Societies shall have equal membership. The Chairman of the Federation Board shall be furnished for a one-year term by each Society in its turn as determined by seniority in the Federation and shall be the immediate Past-President of that Society.

ARTICLE V. *Amendments*

SECTION 1. *Amendments*. Amendments to this Constitution may be proposed by any of the constituent Societies. If approved by a two-thirds majority of the Federation Board, the proposal shall then be referred to the constituent Societies.

The amendment shall be adopted when approved by all of the constituent Societies.

SECTION 2. *Bylaws*. Bylaws may be adopted or amended by the Federation Board at any meeting of the Board by a vote in which at least two of the representatives from each member Society must concur.

BYLAWS

(Amended, 1954)

ARTICLE I. *The Federation Board*

SECTION 1. The Federation Board shall consist of the President, the Secretary and the immediate Past-President of each of the constituent Societies. In the absence of a member of the Board, his place may be filled by a substitute designated by the appropriate Society. In the absence of the Chairman, the President of the senior Society for that year shall serve as chairman.

The Federation Board shall have the control and general management of the business affairs of the Federation. The Chairman shall have such powers and duties as are ordinarily exercised by the president of a corporation, including but not limited to the following: a) he shall preside at meetings of the Federation Board; b) he shall sign and execute all contracts, agreements and other legal documents in the name of the Federation upon authorization by the Federation Board.

SECTION 2. The Federation Board shall consider measures of advantage to the Federation. Any constituent Society may refer such measures to the Federation Board for consideration. In the interim between regular meetings of the Federation Board, such measures may be referred to all members of the Board by mail and the members may vote on such measures by mail ballot.

SECTION 3. The Federation Board may take such action, or may authorize the Chairman or the Federation Secretary to take such action, as is approved by at least two representatives of each Society. The actions of the Federation Board shall be reported to the annual business meetings of the member Societies. A quorum of the Federation Board shall consist of not less than twelve Board members, with each constituent Society represented by at least two of its representatives.

SECTION 4. The Federation Board shall appoint annually a Secretary-Treasurer, to be known as the Federation Secretary, who may present matters to the Federation Board for decision but who shall not be entitled to vote.

SECTION 5. The Federation Board shall control all monies of the Federation, determine the annual Federation assessment per member of the constituent Societies, set the subscription rates for Federation publications and the fees of the Placement Service, and appropriate monies for use of its authorized committees and the Federation Secretary. The assessment shall be applied to each Society as of July 1 of each year and shall be due the Federation on that date.

SECTION 6. The Federation Board shall determine times and places of annual meetings of the Federation upon recommendations of the Federation Secretary.

ARTICLE II. *Federation Secretary*

The Federation Secretary shall act as secretary to the Federation Board and be responsible for all Federation records; he shall act as treasurer for the Federation and submit audited financial statements to the Federation Board at the annual meeting; he shall be responsible for making the arrangements for the annual meeting of the Federation; he shall act as managing editor of the publications of the Federation; he shall supervise the Federation's Placement Service and make an annual report on its activity to the Federation Board; and he shall perform such other duties as prescribed by the Federation Board and which do not conflict with the Constitutions and Bylaws of the constituent Societies.

ARTICLE III. *Committees and Representatives*

SECTION 1. The Federation Board shall establish such committees and designate such representatives as desired and receive their reports. The Chairman of the Federation Board shall appoint, with the advice of the Board, the individual committee members and representatives, unless otherwise specified by the Board.

SECTION 2. A Public Information Committee shall be a standing committee of the Federation.

SECTION 3. A Secretaries Committee, composed of the Secretaries of the constituent Societies, shall be a standing committee of the Federation. The Chairman of this Committee shall be the Secretary of the senior Society for the year. This Committee shall be responsible for arranging the program of the annual meeting and for setting the registration fee for this meeting, shall act as an editorial board for Federation publications and shall perform such other functions in connection with the annual meeting as prescribed by the Federation Board.

SECTION 4. The Secretaries Committee shall meet during the winter, and a meeting of the entire Federation Board may be associated with this meeting.

ARTICLE IV. *Meetings*

SECTION 1. The Federation shall hold an annual meeting for presentation of papers at the scientific sessions of the constituent Societies or at general

sessions of the Federation and for transaction of business.

SECTION 2. Abstracts of papers to be read at an annual meeting of the Federation must be submitted to the Secretary of the Society of which the proposer of the paper is a member, and such proposer must be either an author of the paper or introduce the author(s). No person may present orally more than one paper at the Federation meeting except at the invitation of the Secretary of an individual Society. The oral presentation of any paper shall be by the first named author, except by permission of the Secretary of the Society concerned.

SECTION 3. Each Society shall have the responsibility for selecting and arranging its scientific program and for setting its specific regulations, provided these are not in conflict with the general regulations under Section 2. The authors of the paper may request its transfer to the program of another Society, but this may be done only with the consent of the Secretaries of the two Societies concerned. Secretaries on their own initiative may transfer papers from the program of one Society to that of another. Transfers shall be indicated in the program.

SECTION 4. The abstracts of papers read at scientific sessions of all constituent Societies at the annual meeting shall be published in the FEDERATION PROCEEDINGS. Rules regarding the form and length of the abstracts shall be set by the Secretaries Committee and shall be circulated at least six weeks prior to the date set for receipt of the abstracts.

ARTICLE V. *Publications*

The official publications of the Federation shall be FEDERATION PROCEEDINGS and such other publications as the Federation Board may authorize. FEDERATION PROCEEDINGS shall be owned by the Federation and published under the supervision of the Managing Editor and the Secretaries Committee. Normally, a March issue, in two parts, shall contain the abstracts of papers and the program for the annual meeting. A December issue shall contain the annual list of the members of the Societies and other pertinent information. Two other issues shall contain papers from the Joint Session, symposia and such other material as may be selected by the Secretaries Committee.

ARTICLE VI. *Placement Service*

The Federation shall maintain a Placement Service the function of which shall be to assist in the placing of professional personnel in suitable positions.

ARTICLE VII. *Seal*

The seal of this Federation shall be circular in form with the name of the Federation around the outer edge and in the center the words, "Incorporated in the District of Columbia January 19, 1954."

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions for teaching or research and institutions that wish to fill vacancies in these sciences.

The Service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and employers. It publishes quarterly lists of applicants in February, May, August and November, semiannual lists of available positions in March and September and a list of fellowships and assistantships in October. Publication of the February list of candidates and the March list of positions precedes the annual meeting, allowing time for correspondence between interested employers and candidates before the dates of the interview services provided them.

Individuals, whether members of the Federation or not, universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available.

By action of the Executive Committee in 1954 the following charges were authorized:

Annual applicant registration fee	$ 3
Annual subscription to all lists of the Service	$15
Single copy of list of candidates	$10
Single copy of available positions	$ 5
Single copy of fellowship list	$ 2

A single copy of the fellowship list will be sent without cost to any member of a constituent Society upon written request.

To be eligible to use the arrangements for interviews at the annual meeting an employer must be an annual subscriber or a subscriber to the then current February list of applicants.

All communications should be addressed to: Federation Placement Service, 9650 Wisconsin Ave., Washington 14, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1957–1958

President—L. N. KATZ, Michael Reese Hospital, Chicago, Illinois.

President-Elect (Secretary)—HALLOWELL DAVIS, Central Institute for the Deaf, St. Louis, Missouri.

Past-President—A. C. BURTON, University of Western Ontario, London, Canada.

Council—L. N. KATZ, HALLOWELL DAVIS, A. C. BURTON, J. H. COMROE, JR. (1958), R. F. PITTS (1959), JAMES DANIEL HARDY (1960), H. S. MAYERSON (1961).

Executive Secretary-Treasurer—R. G. DAGGS, 9650 Wisconsin Avenue, Washington 14, D. C.

Administrative Advisor—M. O. LEE, 9650 Wisconsin Avenue, Washington 14, D. C.

STANDING COMMITTEES

Membership Advisory—JAMES DANIEL HARDY (1958), *Chairman*; and Members of the Council.

Educational Matters—E. F. ADOLPH (1961), *Chairman*; W. R. AMBERSON (1958), C. L. PROSSER (1959), J. H. COMROE, JR. (1960), A. W. MARTIN, JR. (1961).

Use and Care of Animals—R. F. PITTS (1959), *Chairman*; H. W. DAVENPORT (1959), W. F. HAMILTON (1958).

Placement of Senior Physiologists—D. B. DILL (1958), *Chairman*; W. O. FENN, W. F. HAMILTON, E. M. LANDIS.

Porter Fellowship—R. F. PITTS (1959), *Chairman*; H. S. MAYERSON (1958), HERMANN RAHN (1960).

Program Advisory Committee—J. H. COMROE, JR. (1960), *Chairman*.

Committee on International Physiology of the American Physiological Society—W. O. FENN (1959), *Chairman*; R. W. GERARD (1961), M. B. VISSCHER (1963).

Historian—John FIELD, II.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—F. A. HITCHCOCK (1960), SID ROBINSON (1958).

American Documentation Institute—WILLIAMINA A. HIMWICH (1958).

American Institute of Biological Sciences—W. O. FENN (1959).

Council for Coordination of International Congresses—M. B. VISSCHER.

Council of International Organizations in Medical Sciences—M. B. VISSCHER.

A. P. S. Members of the United States National Committee for the International Union of Physiological Sciences—W. O. FENN (1959), R. W. GERARD (1961), M. B. VISSCHER (1963), E. M. LANDIS (alternate).

National Research Council—Division of Biology and Agriculture, D. B. DILL (1958); Division of Medical Sciences, R. W. GERARD (1959).

Council on Medical Education and Hospitals, A.M.A.—L. N. KATZ (1958).

EDITORIAL BOARDS

Board of Publication Trustees—M. B. VISSCHER (1959), *Chairman*; H. E. ESSEX (1958), W. F. HAMILTON (1960).

Managing Editor—M. O. LEE.

Associate Editor—R. G. DAGGS.

American Journal of Physiology and Journal of Applied Physiology—W. D. ARMSTRONG (1960), E. J. BALDES (1959), R. W. BERLINER (1959), A. F. COURNAND (1959), R. C. DE BODO (1960), PHILIP DOW (1960), W. S. FOWLER (1959), ROBERT GALAMBOS (1959), ROBERT GAUNT (1959), A. S. GILSON, JR. (1960), H. D. GREEN (1960), E. G. GROSS (1959), H. K. HARTLINE (1959), A. B. HASTINGS (1959), H. E. HIMWICH (1959), ALEXANDER HOLLAENDER (1960), ANCEL KEYS (1960), NATHAN LIFSON (1960), G. K. MOE (1959), W. F. H. M. MOMMAERTS (1960), M. F. MORALES (1958), ERIC OGDEN (1959), H. M. PATT (1960), GREGORY PINCUS (1958), HERMANN RAHN (1960), R. L. RILEY (1959), SIDNEY ROBERTS (1959), T. C. RUCH (1958), JANE A. RUSSELL (1960), OTTO H. SCHMITT (1960), W. H. SEEGERS (1959), E. E. SELKURT (1960), H. L. WHITE (1960), E. H. WOOD (1960), W. B. YOUMANS (1960).

Physiological Reviews—H. J. CURTIS (1959), *Chairman*; C. F. CODE (1960), SEYMOUR KETY (1958), H. S. MAYERSON (1961), I. H. PAGE (1960), ARTURO ROSENBLUETH (1958), E. M. LANDIS (1960), VERNON MOUNTCASTLE (1960). *Appointees of the Society of General Physiologists*—K. THIMANN

(1959), D. R. GRIFFIN (1960); *Appointees of the Society of Biological Chemists*—EMIL L. SMITH (1960), JOHN M. BUCHANAN (1960). *European Editorial Committee*—G. KAHLSON (1959), *Chairman*; H. BARCROFT (1959), A. FESSARD (1959), E. LUNDSGAARD (1959), R. H. S. THOMPSON (1959).

Annual Review of Physiology—JOHN FIELD II (1960), *Chairman*; H. D. GREEN (1958), J. M. BROOKHART (1960), H. W. DAVENPORT (1960).

PAST OFFICERS

Presidents—**1887** S. WEIR MITCHELL. **1888** H. P. BOWDITCH. **1889–1890** S. WEIR MITCHELL. **1891–1895** H. P. BOWDITCH. **1896–1904** R. H. CHITTENDEN. **1905–1910** W. H. HOWELL. **1911–1913** S. J. MELTZER. **1914–1916** W. B. CANNON. **1917–1918** F. S. LEE. **1919–1920** W. P. LOMBARD. **1921–1922** J. J. R. MACLEOD. **1923–1925** A. J. CARLSON. **1926–1928** J. ERLANGER. **1929–1931** W. J. MEEK. **1932–1933** A. B. LUCKHARDT. **1934** CHARLES W. GREENE. **1935–1936** F. C. MANN. **1937–1938** W. E. GARREY. **1938** W. T. PORTER, *Honorary President*. **1939–1940** A. C. IVY. **1941–1945** P. BARD. **1946–1947** W. O. FENN. **1948** M. B. VISSCHER. **1949** C. J. WIGGERS. **1950** H. C. BAZETT (April to July); D. B. DILL. **1951** R. W. GERARD. **1952** E. M. LANDIS. **1953** E. F. ADOLPH. **1954** H. E. ESSEX. **1955** W. F. HAMILTON. **1956** A. C. BURTON.

Secretaries—**1887–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1907** L. B. MENDEL. **1908–1909** R. HUNT. **1910–1914** A. J. CARLSON. **1915–1923** C. W. GREENE. **1924–1928** W. J. MEEK. **1929** A. C. REDFIELD. **1930–1931** A. B. LUCKHARDT. **1932–1934** F. C. MANN. **1935–1938** A. C. IVY. **1939–1940** PHILIP BARD. **1940** C. J. WIGGERS. **1942–1945** W. O. FENN. **1946–1947** M. B. VISSCHER.

Treasurers—**1888–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1912** W. B. CANNON. **1913–1923** J. ERLANGER. **1924–1925** C. K. DRINKER. **1926–1935** ALEXANDER FORBES. **1936–1939** W. O. FENN. **1940** C. J. WIGGERS. **1941–1945** HALLOWELL DAVIS. **1946–1947** D. B. DILL.

Executive Secretary-Treasurer—**1948–1956** M. O. LEE.

CONSTITUTION AND BYLAWS

Adopted at the 1953 Spring Meeting

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is THE AMERICAN PHYSIOLOGICAL SOCIETY.

ARTICLE II. *Purpose*

The purpose of the Society is to promote the increase of physiological knowledge and its utilization.

BYLAWS

(Amended April 1956)

ARTICLE I. *Membership*

SECTION 1. The Society shall consist of members and honorary members.

SECTION 2. *Members*. Any person who has conducted and published meritorious original research in physiology and/or biophysics and who is a resident of North America shall be eligible for membership in the Society.

SECTION 3. *Honorary Members*. Distinguished scientists of any country who have contributed to the advance of physiology shall be eligible for proposal as honorary members of the Society.

ARTICLE II. *Officers*

SECTION 1. The management of the Society shall be vested in a Council consisting of the President, the President-Elect, the Past-President for the previous year, and four other members. The terms of the President and of the President-Elect shall be one year. The terms of the four additional Councilors shall be four years each and they shall not be eligible for immediate reelection except those who have served for two years or less in filling interim vacancies. A person may serve only one term as President, except that if the President-Elect becomes President after September 30 he shall continue as President for the year beginning the next July 1st.

SECTION 2. Nomination and election of a President-Elect and Councilor(s) shall be by ballot at the Spring meeting of the Society. They shall assume office on July 1 following their election.

SECTION 3. The President-Elect shall serve as Vice-President and Secretary. Should he have to function as President prematurely, the Council shall select from among its own members a Secretary.

SECTION 4. The Council shall be empowered to appoint and compensate an Executive Secretary-Treasurer who shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council.

SECTION 5. The Council may fill any interim vacancies in its membership or vacancies on any Board or Committee of the Society, unless otherwise provided.

ARTICLE III. *Dues*

SECTION 1. The annual assessment on members shall be determined by the Council and shall be due in advance on July 1.

SECTION 2. A member whose dues are two years in arrears shall cease to be a member of the

Society, unless after payment of his dues in arrears and application to the Council, he shall be reinstated at the next Spring meeting by special vote of the Council. It shall be the duty of the Secretary to notify the delinquent of his right to request reinstatement.

SECTION 3. A member who has retired from employment because of illness or age may, upon application to the Council, be relieved from the payment of the annual member assessment.

ARTICLE IV. *Meetings*

SECTION 1. A meeting of the Society for transacting business, electing officers and members, presenting communications, and related activities, shall be held in the Spring of each year, with other member Societies of the Federation of American Societies for Experimental Biology, except that under exceptional circumstances the Council may cancel such a meeting.

SECTION 2. A Fall meeting of the Society shall be held at a time and place determined by the Council, for presenting communications and for transacting business except the election of officers.

SECTION 3. Special meetings of the Society or of the Council may be held at such times and places as the Council may determine.

SECTION 4. Regional meetings of the Society, for the purpose of presenting scientific communications, may be authorized by the Council.

ARTICLE V. *Publications*

SECTION 1. The official organs of the Society shall be the *American Journal of Physiology*, the *Journal of Applied Physiology*, *Physiological Reviews* and such other publications as the Society may own.

SECTION 2. A Board of Publication Trustees, composed of three members of the Society and appointed by the Council, shall be vested with the full power of the Society to control and manage, both editorially and financially, all of the publications of the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of the publications of the Society except by consent of the Council. The term of each member of the Board shall be three years; a member may not serve more than two consecutive terms. The Council shall designate the Chairman of the Board, and shall receive an annual report on the finances, publications and policies. A summary of this report shall be presented to the Society at the Spring meeting.

The Chairman of the Board of Publication Trustees shall be a member ex-officio of the Council but shall have no vote.

ARTICLE VI. *Committees and Representatives*

The Council may appoint such special and standing committees as it deems necessary or that are voted by the Society.

The Council may name members of the Society as representatives to other organizations whenever it deems such action desirable.

ARTICLE VII. *Standing Rules*

1. *Election to Membership.* Two members of the Society must join in proposing a person for membership, in writing and with a statement of his qualifications. The Council may, from the persons so proposed, nominate candidates for election to membership. Nominations shall be presented at Spring and Fall meetings; a two-thirds majority vote of the members present and voting at the next following Fall or Spring meeting shall be necessary for election.

If a Spring or Fall meeting of the Society is not held, the procedures of nomination and/or election of new members may be effected by mail.

The names of the candidates nominated by the Council for membership and statements of their qualifications signed by their proposers shall be available for inspection by members during the Society meetings at which their election is considered.

2. *Election to Honorary Membership.* The proposal of an honorary member shall be made by two members of the Society to the Council in writing. The Council may, from the candidates so proposed, make nominations to the Society at a Spring meeting. A two-thirds majority vote of the members present shall be necessary for election.

Honorary members shall have the privilege of attending business sessions of the Society but shall have no vote. They shall pay no membership fees.

3. *Presentation of Papers.* At a Spring meeting of the Society a member or honorary member may present orally or by title, be co-author of, or introduce not more than one scientific paper on the program, except upon invitation of the Council. At a Fall meeting a member or honorary member may present orally not more than one paper, except upon invitation of the Council.

Upon invitation by the Council, a member may contribute papers to specially designated sessions of the Society without forfeit of his privilege of presenting a regular scientific communication.

4. There shall be a Committee on Membership appointed by and advisory to the Council.

5. There shall be a Program Advisory Committee appointed by the Council.

Article VIII. *General*

Section 1. *Amendments.* These Bylaws, except Article VII, may be amended at any Spring meeting of the Society by a three-fourths majority vote of the members present.

The Standing Rules of Article VII may be amended by a majority vote of the members present at either a Spring or Fall meeting of the Society.

Section 2. *Quorum.* At all business meetings of the Society fifty members shall constitute a quorum.

Section 3. *Parliamentary Authority.* The rules contained in *Roberts Rules of Order* shall govern the conduct of the business meetings of the Society in all cases to which they are applicable and in which they are not inconsistent with the Bylaws or special rules of order of the Society.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, 1957–1958

President—J. T. Edsall, Harvard University, Cambridge, Massachusetts.

President-Elect—S. Ochoa, New York University, New York City.

Secretary—Philip Handler, Duke University, Durham, North Carolina.

Treasurer—Stanford Moore, Rockefeller Institute for Medical Research, New York City.

Council—J. T. Edsall, S. Ochoa, H. E. Carter, P. Handler, S. Moore, H. T. Clarke (1955–58), W. D. McElroy (1956–59), H. A. Lardy (1957–60).

STANDING COMMITTEES

Nominating Committee—K. Bloch (1956–57, 1957–58), *Chairman*; C. B. Anfinsen, Jr. (1957–58), P. D. Boyer (1957–58), J. M. Buchanan (1957–58), S. Gurin (1957–58), R. D. Hotchkiss (1956–57, 1957–58), O. H. Lowry (1956–57, 1957–58), H. Neurath (1957–58), D. Shemin (1957–58).

Editorial Committee—C. A. Elvehjem (1953–59), *Chairman*; V. H. Cheldelin (1953–59), R. Y. Stanier (1957–59), A. Kornberg (1955–61), W. H. Stein (1955–61), H. G. Wood (1955–61), B. L. Horecker (1957–63), I. C. Gunsalus (1957–63), B. Vennesland (1957–63).

Finance Committee—P. P. Cohen (1951–56, 1956–61), *Chairman*; R. J. Anderson (1951–), J. T. Edsall (1957–58), C. A. Elvehjem (1955–57, 1957–58), S. Moore (1956–57, 1957–58).

Historian—H. T. Clarke.

Legal Counsel—A. S. Davis.

Editorial Board, Journal of Biological Chemistry

R. J. Anderson (1930–), *Managing Editor*, (1935–); H. B. Vickery (1941–), *Assoc. Managing Editor* (1954–59); J. T. Edsall (1954–), *Editor-elect*; R. M. Archibald (1953–58), E. G. Ball (1950–55, 1955–60), K. Bloch (1951–56, 1956–61), G. B. Brown (1954–59), H. E. Carter (1950–55, 1955–60), H. T. Clarke (1956–61), W. E. Cohn (1955–60), C. F. Cori (1941–), E. A. Doisy (1938–), V. du Vigneaud (1948–53, 1953–58), J. S. Fruton (1948–53, 1953–58), W. H. Griffith (1949–54, 1954–59), A. B. Hastings (1941–54, 1954–59), L. Hellerman (1951–56, 1956–61), A. L. Lehninger (1954–59), S. Moore (1950–55, 1955–60), H. Neurath (1954–59), S. Ochoa (1950–55, 1955–60), E. E. Snell (1949–59), W. M. Sperry (1949–59), D. Stetten, Jr. (1954–59), E. L. Tatum (1948–53, 1953–58), O. Wintersteiner (1951–56, 1956–61).

SPECIAL COMMITTEES

Membership Committee—D. M. Greenberg (1955–58), *Chairman*; E. Chargaff (1955–58), M. J. Coon (1956–59), B. L. Horecker (1956–59), A. Meister (1957–60), G. W. Schwert (1957–60).

Program Committee—E. Stotz (1953–58), *Chairman*; A. L. Dounce, L. L. Miller, W. W. Westerfeld, H. H. Williams, R. F. Witter.

Revision of Bylaws, 1952–58—E. Stotz, *Chairman*; A. K. Balls, H. B. Vickery.

Clinical Chemistry, 1954–58—Robert Hill, *Chairman*; R. M. Archibald, M. F. Mason, W. J. Darby, A. J. Quick.

Biochemical Nomenclature (Joint with American Institute of Nutrition)—W. M. Sperry, E. E. Snell.

Travel Awards—A. L. Lehninger (1959), *Chairman*; C. F. Cori (1958), I. C. Gunsalus (1960), D. Stetten, Jr. (1961), E. E. Snell (1962).

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—K. Folkers (1956–58), A. E. Wilhelmi (1956–58).

National Committee on Biochemistry—W. M. Stanley (1953–55, 1955–58), S. Ochoa (1956–59), C. A. Elvehjem (1957–60).

National Research Council—T. L. McMeekin, Division of Biology and Agriculture (1955–58); J. D. Ferry, Division of Chemistry and Chemical Technology (1955–58); J. T. Edsall (1953–58), W. D. McElroy (1956–59), G. B. Brown (1957–60),

Committee on Biological Chemistry, Division of Chemistry and Chemical Technology; W. W. Westerfeld, Division of Medical Sciences (1956–59).

Committee on Organic Nomenclature, A. C. S.—H. S. Loring.

American Board of Clinical Chemistry, Inc.—R. M. Hill, W. M. Sperry, R. M. Archibald.

PAST OFFICERS

Presidents—**1907** Russell H. Chittenden. **1908** John J. Abel. **1909** Otto Folin. **1910** Thomas B.

OSBORNE. 1911 LAFAYETTE B. MENDEL. 1912–1913 ARCHIBALD B. MACALLUM. 1914 GRAHAM LUSK. 1915–1916 WALTER JONES. 1917–1918 CARL L. ALSBERG. 1919–1920 STANLEY R. BENEDICT. 1921–1922 D. D. VAN SLYKE. 1923–1924 PHILIP A. SHAFFER. 1925 HENRY C. SHERMAN. 1926 EDWARD C. KENDALL. 1927–1928 E. V. MCCOLLUM. 1929–1930 W. R. BLOOR. 1931–1932 H. C. BRADLEY. 1933–1934 W. M. CLARK. 1935–1936 H. B. LEWIS. 1937–1938 G. E. CULLEN. 1939–1940 WILLIAM C. ROSE. 1941–1942 R. J. ANDERSON. 1943–1944 E. A. DOISY. 1945–1946 A. B. HASTINGS. 1947–1948 HANS T. CLARKE. 1949 CARL F. CORI. 1950 H. B. VICKERY. 1951 V. DU VIGNEAUD. 1952 H. A. MATTILL. 1953 D. W. WILSON. 1954 CHARLES GLEN KING. 1955 J. M. LUCK. 1956 H. E. CARTER.

Vice-Presidents—1907 J. J. ABEL. 1908 OTTO FOLIN. 1909 T. B. OSBORNE. 1910 L. B. MENDEL. 1911 A. B. MACALLUM. 1912–1913 GRAHAM LUSK. 1914–1915 C. L. ALSBERG. 1916 F. P. UNDERHILL. 1917–1918 A. P. MATHEWS. 1919–1920 D. D. VAN SLYKE. 1921–1922 P. A. SHAFFER. 1923–1924 HENRY C. SHERMAN. 1925 E. C. KENDALL. 1926 E. V. MCCOLLUM. 1927–1928 W. R. BLOOR. 1929–1930 H. C. BRADLEY. 1931–1932 W. M. CLARK. 1933–1934 H. B. LEWIS. 1935–1936 G. E. CULLEN. 1937–1938 W. C. ROSE. 1939–1940 R. J. ANDERSON. 1941–1942 E. A. DOISY. 1943–1944 A. B. HASTINGS. 1945–1946 H. T. CLARKE. 1947–1948 C. F. CORI. 1949 H. B. VICKERY. 1950 V. DU VIGNEAUD. 1951 H. A. MATTILL. 1952 D. W. WILSON. 1953 C. G. KING. 1954 J. MURRAY LUCK. 1955 H. E. CARTER. 1956 J. T. EDSALL.

Secretaries—1907–1909 W. J. GIES. 1910–1912 A. N. RICHARDS. 1913–1915 P. M. SHAFFER. 1916–1918 S. R. BENEDICT. 1919–1923 V. C. MYERS. 1924–1925 D. W. WILSON. 1926 FRED C. KOCH. 1927–1928 D. W. WILSON. 1929–1932 H. B. LEWIS. 1933–1937 H. A. MATTILL. 1938–1940 C. G. KING. 1941–1945 A. K. BALLS. 1946–1948 OTTO A. BESSEY. 1949 R. W. JACKSON. 1950–1953 E. H. STOTZ.

Treasurers—1907–1909 L. B. MENDEL. 1910–1912 WALTER JONES. 1913–1916 D. D. VAN SLYKE. 1917–1921 H. C. BRADLEY. 1922–1925 W. R. BLOOR. 1926–1930 G. E. CULLEN. 1931–1935 C. H. FISKE. 1936–1940 A. B. HASTINGS. 1941–1945 W. C. STADIE. 1946–1950 E. A. EVANS, JR. 1951–1956 P. P. COHEN.

CONSTITUTION

FROM THE ARTICLES OF INCORPORATION

1. The name of the proposed corporation is "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, INCORPORATED."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BY-LAWS

(as revised, 1954)

ARTICLE I. *Membership*

SECTION 1. *Eligibility for Membership.* Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society

SECTION 2. *Nomination.* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SECTION 3. *Election to Membership.* A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has declared the nominee to be eligible and endorsed. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture.* A. Any member who grants the use of his name for the advertisement or for the promotion of the sale of a product to be used for medicine or for food, this product not being one of demonstrated usefulness or value, or who shall act in a manner that is not in the public interest, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership provided that a copy of the charges, together with a written notice of a hearing thereon with time and place specified, shall have been delivered at least thirty days before the date of such hearing to the member charged with the violation.

SECTION 5. *Expulsion.* Upon recommendation of the Council any member may be expelled by a majority vote of the members present at a Business Meeting of the Society, provided that a copy of the charges together with a written notice of a hearing with time and place specified, shall have been delivered to the member at least thirty days before the date of such hearing.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual.* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special.* A special meeting may be called at any time by the President, or in case of his absence or disability by the President-Elect, and must be called at the request of a majority of the Council or fifty members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which all meetings shall be held.

SECTION 3. *Quorum.* Fifty members shall constitute a quorum at all meetings of the Society,

but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III. *Officials*

Section 1. *Officers.* The officers shall be a President, a President-Elect, a Secretary, and a Treasurer, who shall be elected annually by the members of the Society.

Section 2. *Council* A. The Officers so elected, and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the corporation and shall be known as "The Council." The immediate Past-President shall be invited to meet with the Council but shall not have the power to vote.

B. No two members of the Council may be from the same institution, and none of the members shall be eligible for re-election until after the lapse of one year, except the Secretary and Treasurer who shall each be eligible for re-election for five successive years.

Section 3. *Duties of Officers.* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions. The President-Elect shall act as President in case of the inability of the President to serve.

Article IV. *The Council*

Section 1. *Powers.* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and shall possess all of the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

Section 2. *Reports.* The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership and on all charges of a violation of these By-Laws.

Article V. *Nominations and Elections*

Section 1. *Nominating Committee.* A. The Nominating Committee shall consist of nine members from nine different institutions. Members who have served for two consecutive years shall be ineligible for re-election until after the lapse of one year. The members shall be elected at each annual meeting from a slate provided by the incumbent Nominating Committee, this slate to contain the names of at least fifteen Society members, each from a different institution, provided that this slate contain not more than five names of members of the incumbent Nominating Committee and further provided that to this slate there shall be added the name of any Society member received by the Secretary and supported by the petition of twenty or more Society members.

B. The nine nominees from different institutions who receive the highest number of votes on the official ballot shall be declared elected to the Nominating Committee, the one receiving the most votes being declared its Chairman and Secretary. Tie votes for the position of Chairman, or for the person in the ninth position in the report of the Tellers, shall be resolved by a vote cast by the President. The name of the person in tenth position shall be held as an alternate to serve in the event of the disability of one of the elected members other than the Chairman. In the event of the disability of the Chairman, the newly elected Nominating Committee shall elect its Chairman from among its own members including the alternate.

Section 2. *Nominations.* A. The Nominating Committee shall make not less than *two* nominations for the offices of the President-Elect and *two* for the position of Councilor, and at least one nomination for each of the remaining offices. In addition the Nominating Committee shall provide a slate of at least fifteen names of members of the Society selected as specified in Article V, Section 1 A, who shall be candidates for positions on the Nominating Committee of the following year. Furthermore, the Nominating Committee in each alternate year shall make not less than three nominations for positions on the Editorial Committee in accordance with the provisions of Article VII, Section 1 of these By-Laws. The names of nominees for each office shall be listed alphabetically on the ballot.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least two months before the annual meeting at which they are to be considered.

C. The Secretary shall prepare and send to every member, at least three weeks before the annual meeting, a printed ballot which shows the nominations of the Nominating Committee for the several offices and positions together with such other properly supported independent nominations for the Nominating Committee as may have been submitted by petition and received by him.

D. Nominations for membership on the Nominating Committee may be made by any member of the Society in the form of a petition addressed to the Secretary and to be received by him at least two months before the annual meeting. Such petitions must be supported by the signatures of not less than twenty members of the Society either attached to the petition or to accompanying documents.

Section 3. *Elections.* A. The members of the

Society shall individually vote on the printed ballots presented to them by the Secretary and shall return them in signed envelopes to the Secretary not later than the hour set for the opening of the first executive session of the Annual Meeting.

B. At the time during the annual meeting that the election shall have been declared closed by the President, the Secretary shall present to the Tellers, appointed by the President to take charge of the election, all signed ballots received by him.

C. All elective positions shall be filled by ballot according to a report presented by the Tellers at an executive session of the annual meeting.

D. A *plurality* of the votes cast shall be necessary to elect, and in case of a tie vote the President shall cast the deciding ballot.

E. Elected officers shall take office on July 1st following the annual meeting.

SECTION 4. *Filling of Vacancies.* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. Any vacancy which occurs at a meeting shall be filled temporarily by vote of the Council.

B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues.* Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council. Members who have reached the age of 65 years, or who have become incapacitated, may request the consideration of the Council for exemption from payment of Society dues.

SECTION 2. *Expenditures.* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council or of its Finance Committee. Expenditures from any special funds which have accrued from taxation of the membership or otherwise shall require either the vote of the Council or of a Committee designated by the Council.

SECTION 3. *Privileges of Membership Begin with Payment of Dues.* Newly elected members are entitled to the privileges of membership only after payment of the dues following their election. Such dues shall be paid on or before July 1 of each year.

SECTION 4. *Penalty for Non-Payment of Dues.* A member who has not paid dues within a period of one year after billing shall, upon being billed for the succeeding year, be notified of forfeiture of membership unless all indebtedness to the Society is met within 60 days. Reinstatement shall require the request of the delinquent member, approval by the Council, and liquidation of all indebtedness.

SECTION 5. *Herter Fund.* A. *Use.* The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society, in accordance with the terms of the agreement dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said fund. The income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry subject to the supervision and control of the Finance Committee of the Council in accordance with the Trust Agreement.

B. *Trust Agreement.* The Council may from time to time make Agreement with a Trust Company which shall then serve as the depositary of the investments and income of the "Christian A. Herter Memorial Fund" hereinafter called the Herter Fund and of such other funds as the Society may from time to time commit to its charge. The Trust Company shall have and exercise the following powers and duties, viz., the custody and safekeeping of securities and cash belonging to the Herter Fund and other funds and the collection of income and other moneys due, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Herter Fund or other funds; the investment or reinvestment of the capital of the Herter Fund or other funds, subject to the approval of the Council or the Chairman of the Finance Committee; the disbursement of principal under the direction of the Council and the disbursement of income of the Herter Fund under the direction of the Editorial Board of the Journal of Biological Chemistry with the approval of the Chairman of the Finance Committee of the Council. The Trust Company shall keep books of account and render statements, annually or oftener upon the request of the Council or its Finance Committee, setting forth the condition of the Herter Fund or other funds and the receipts and disbursements since the date of the preceding statement.

SECTION 6. *Finance Committee.* A. *Membership.* The Finance Committee shall consist of the President of the Society, the Treasurer of the Society, the Managing Editor of the Journal of Biological Chemistry, and the Chairman of the Editorial Committee *ex officiis* together with one member of the Society to be appointed by the Council for a period of five years. The President shall designate the Chairman annually from among its members.

B. *Duties.* The Finance Committee shall meet at the time of the annual meeting of the Society or at the call of the Chairman or President and shall examine and verify the records of the Trust

Company and all financial records concerning the manufacture and sale of the Journal of Biological Chemistry, these records having been duly audited by an independent public accountant. They shall at all times act as the agents of the Council with respect to the financial acts of the Trust Company as defined in Sub-section B of Section 5 and the financial acts of the Managing Editor of the Journal of Biological Chemistry. They shall render an annual report to the Council.

ARTICLE VII. *Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.* The Editorial Committee shall consist of nine members of the Society from different institutions who shall be nominated by the Nominating Committee and elected by the Society in the same manner as the officers. The term of office shall be six years and members shall not be eligible for re-election until after an interval of one year. Three members shall be elected each alternate year to succeed the three members whose terms shall have expired.

SECTION 2. *Powers of Committee.* The Editorial Committee shall elect a Chairman from among its own membership and the Chairman shall be eligible for re-election. The Committee shall have the power to appoint the members of the Editorial Board from among the membership of the Society and to determine their term of office. In making these appointments, the recommendations of the Managing Editor of the Journal are to be taken into consideration with respect to the qualifications of the appointees and to the needs of the Journal. The Commitee shall have the final authority in matters pertaining to the general policies of the Journal.

SECTION 3. *Editorial Board.* The members of the Editorial Board shall be appointed by the Editorial Committee to assist the Managing Editor in the editorial conduct of the Journal. The expenditure of the income of the Herter Fund shall be under the direction of the Editorial Board, subject to the provisions of Article VI, Section 5, of these By-Laws.

SECTION 4. *Managing Editor.* The Managing Editor shall be appointed by the Council in consultation with the Editorial Board and the Editorial Committee. He shall have direct responsibility and authority for both the active editorial conduct of the Journal and the management of its affairs, including contracts for publication, approval of advertising, office administration and related activities. The Managing Editor shall report annually to the Chairman of the Editorial Committee in advance of the regular meeting, and through him to the Council, on the condition of the Journal.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.* The Council shall set specifications on the time allotment for presentation of papers by members at meetings of the Society. Members shall have the privilege of introducing non-members for the purpose of presenting papers unless the privilege is revoked or limited by the Council.

SECTION 2. *Number of Papers.* The Council shall, from time to time, set the rules on the number of papers which may be presented by a member, as necessitated by changing circumstances but with regard to equality of privilege for the members.

ARTICLE IX. *Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X. *Amendments*

SECTION 1. *Manner of Presentation.* Proposed amendments to the By-Laws must be sent to the Secretary at least three months before the date of the meeting at which they are to be considered and must be endorsed in writing by at least three members.

SECTION 2. *Notice of Intended Amendments.* The Secretary shall notify each member of proposed amendments at least three weeks before the meeting at which they are to be considered.

SECTION 3. *Adoption of Amendments.* Amendments to the By-Laws shall be voted upon by written ballot. After discussion at the first executive session, the Council shall instruct the Secretary whether to conduct the balloting at an executive session of the Society or by mail. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment. Amendments shall become effective July 1 following their adoption.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Founded December 28, 1908; Incorporated June 19, 1933

OFFICERS, 1957–1958

President—Otto Krayer, Harvard Medical School, Boston, Massachusetts.

President-Elect—Chauncey D. Leake, Ohio State University, Columbus.

Past-President—Harry Beckman, Marquette University, Milwaukee, Wisconsin.

Treasurer—James M. Dille, University of Washington School of Medicine, Seattle.

Treasurer-Elect—Allan D. Bass, Vanderbilt University, Nashville, Tennessee.

Secretary—Harold C. Hodge, University of Rochester, Rochester, New York.

Council—Paul K. Smith (1958), Bernard B. Brodie (1959), Oliver H. Lowry (1960).

Historian—E. M. K. Geiling.

COMMITTEES

Membership Committee—Julius Coon (1958), *Chairman*; Walter F. Riker (1959), James A. Bain (1960).

Nominating Committee—Windsor C. Cutting, *Chairman*; Julius H. Comroe, Jr., Kenneth I. Melville, Fred W. Schueler, E. Leong Way.

Standing Committee on Educational Affairs—Julius H. Comroe, Jr. (1958), Douglas Riggs (1958), Lawrence Peters (1959), Eldon M. Boyd (1959), Andrew C. Bratton, Jr. (1959), Allan D. Bass (1960), Klaus Unna (1960), Karl H. Beyer, Jr. (1960).

Committee on Non-Scientific Professional Affairs—George Acheson (1958), Harold C. Hodge (1958), Carl C. Pfeiffer (1959), George B. Koelle (1959), Alfred Farah (1960), Alfred Gilman (1960).

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—Thomas H. Maren (1958), Byron B. Clark (1958).

Division of Medical Sciences, National Research Council—Harvey B. Haag.

Division of Biology and Agriculture, National Research Council—Arnold J. Lehman.

International Union of Physiological Sciences—Carl F. Schmidt, Maurice H. Seevers, K. K. Chen, James A. Shannon.

Editorial Board

Board of Publication Trustees—M. H. Seevers, L. S. Goodman, Lawrence Peters, Otto Krayer, Harry Beckman.

Journal of Pharmacology and Experimental Therapeutics—Lawrence Peters, *Editor*; Julius Axelrod, H. L. Borison, P. B. Dews, K. P. DuBois, Sydney Ellis, R. F. Furchgott, Avram Goldstein, Harris Isbell, C. J. Kensler, E. K. Killam, Louis Lasagna, N. C. Moran, W. F. Riker, Jr., F. W. Schueler, C. C. Smith, J. L. Strominger, E. W. Sutherland, Jr., E. L. Way, W. C. Wescoe, T. C. West, L. A. Woods.

Pharmacological Reviews—Otto Krayer, *Chairman*; G. H. Acheson, H. Blaschko, B. D. Davis, Erik Jacobsen, G. B. Koelle, Mark Nickerson, Börje Uvnäs, Marthe Vogt, Miles Weatherall.

PAST OFFICERS

Presidents—**1909–1912** J. J. Abel. **1913–1915** T. Sollmann. **1916–1918** Reid Hunt. **1919–1920** A. S. Loevenhart. **1921–1923** C. W. Edmunds. **1924–1926** John Auer. **1927–1929** Carl Voegtlin. **1930–1931** G. B. Wallace. **1932–1933** W. de B. MacNider. **1934** R. A. Hatcher. **1935–1936** V. E. Henderson. **1937–1938** A. L. Tatum. **1939** O. H. Plant. **1940–1941** E. M. K. Geiling. **1942–1943** E. K. Marshall, Jr. **1944–1945** E. E. Nelson. **1946–1947** M. H. Seevers. **1948** C. A. Dragstedt. **1949–1950** C. F. Schmidt. **1951** McKeen Cattell. **1952** K. K. Chen. **1953** H. B. Haag. **1954** C. M. Gruber. **1955** E. G. Gross. **1956** Harry Beckman.

Vice-Presidents—**1932** A. N. Richards. **1933–1934** A. L. Tatum. **1935–1936** O. H. Plant. **1937–1939** E. M. K. Geiling. **1940–1941** C. F. Schmidt. **1942–1943** C. A. Dragstedt. **1944–1945** C. M. Gruber. **1946** H. B. Van Dyke. **1947** C. A. Dragstedt. **1948** H. B. Van Dyke. **1949** J. C. Krantz. **1950** McKeen Cattell.

Secretaries—**1909–1911** Reid Hunt. **1912–1916** J. Auer. **1917** L. G. Rountree. **1918–1930** E. D. Brown. **1931–1933** V. E. Henderson. **1934–1936** E. M. K. Geiling. **1937–1940** G. P. Grabfield. **1941–1945** R. N. Bieter. **1946–1950** H. B. Haag. **1951–1955** C. C. Pfeiffer. **1956–** H. C. Hodge.

Treasurers—**1909–1913** A. S. Loevenhart. **1914–1920** W. deB. MacNider. **1921–1923** H. McGuigan.

1924–1928 A. L. Tatum. **1929–1934** O. H. Plant. **1935–1938** C. M. Gruber. **1939–1943** E. E. Nelson. **1944–1946** McKeen Cattell. **1947–1950** K. K. Chen. **1951–1953** R. P. Walton. **1954–** J. M. Dille.

CONSTITUTION

Article I. *Name*

The name of this organization shall be the "American Society for Pharmacology and Experimental Therapeutics, Incorporated."

Article II. *Objects*

The purpose of this Society shall be to promote these branches of science and to facilitate personal intercourse between investigators who are actively engaged in research in these fields.

Article III. *Membership*

Section 1. Any person who has conducted and published a meritorious investigation in pharmacology or experimental therapeutics, and who is an active investigator in one of these fields, shall be eligible to membership, subject to the conditions of the other sections of Article III.

Section 2. A. Candidates for membership to this Society shall be proposed by two members who are not members of the Council. The names so proposed shall be sent to the Secretary at least three months prior to the Annual Meeting.

B. The Membership Committee shall investigate the qualifications of the candidates and report to the Council.

C. Candidates reported upon by the Membership Committee to the Council may be recommended for admission by the Council only provided they have been approved by four-fifths of the combined membership of the Membership Committee and the Council.

D. The names of the candidates recommended for admission by the Council shall be posted by the Secretary not later than the day preceding the election for members.

E. The election of members shall be by individual ballot; one opposing vote in every eight cast shall be sufficient to exclude a candidate from membership.

Section 3. *Forfeiture of Membership.*

A. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he shall be reinstated by a special vote of the Council; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to the Council.

B. If the Council shall decide that it is for the best interests of the Society that a member be expelled, the member shall be notified and given an opportunity of a hearing before the Council. Upon the recommendation of the Council the member then may be expelled by a three-fourths vote of those present at a regular meeting of the Society.

Section 4. *Honorary Members.*

A. Distinguished men of science who have contributed to the advance of pharmacology or experimental therapeutics shall be eligible for election as honorary members of the Society.

B. Nominations for honorary members shall take the same course as nominations for ordinary members (Art. III, Sec. 2); but their election shall require the unanimous vote of the members present at the election.

C. Honorary members shall pay no membership fee. They shall have the right to attend all meetings of the Society, and to take part in its discussions, but they shall have no vote.

D. The conditions for continuation of membership shall be the same for honorary as for ordinary members (Art. III, Sec. 3), except that forfeiture for arrears of fees does not apply to honorary members.

Article IV. *Officers and Elections*

Section 1. *Officers and Committees.*

A. The management of the Society shall be vested in a Council of eight officers consisting of a President, President-Elect, Past President, Secretary, Treasurer of the Society, and three Councilors-at-Large.

B. The President-Elect, Secretary, Treasurer and one Councilor-at-Large shall be elected at each annual meeting and shall assume their respective duties on July 1 following their election. A Secretary-elect and a Treasurer-elect shall be elected in alternate years as regular officers to serve for one year before taking over the post as Secretary and Treasurer, respectively, for a term of two years. The President-elect shall become President after serving one year as President-Elect or in case of death or resignation of the President. No person who has served as President is eligible for re-election as President-Elect.

C. The three Councilors-at-Large shall serve for a period of three years, and shall not be eligible for immediate re-election.

D. There shall be a Membership Committee, consisting of three members. No two members shall be from the same institution. The election of the Membership Committee shall be held annually at the time when the election of officers occurs. At the first meeting of the Society under this constitution, one member shall be elected to serve on the Committee for three years, one for two years, and one for one year; and subsequently one member shall be elected each year to serve for a period of three years.

E. There shall be a Nominating Committee of five members. No two members shall be from the same institution. Members of the Nominating Committee shall serve for one year. They are eligible for re-election, but shall not hold membership in the Committee for more than two consecutive years.

F. No person may hold dual membership on the Council, Membership or Nominating Committees.

G. Members of the Nominating Committee are not eligible to nomination for other office.

SECTION 2. *Nomination of Officials and Committeemen.*

A. The Nominating Committee shall make at least one nomination for each office and for the position on the Membership Committee to be filled by vote of the members. The nominations so made shall be transmitted to the Secretary and by him in turn to the members, at least one month before the annual meeting.

B. Nominations for membership on the Nominating Committee shall be made by individual members at the time of the annual election. The five nominees who receive the highest numbers of votes shall be declared elected. The Nominating Committee shall select its own Chairman who shall serve as Secretary to the Committee.

SECTION 3. *Election of Officials and Committeemen.*

A. At the opening of the first executive session of the annual meeting the Secretary shall give to each member present a printed ballot showing the nominations of the Nominating Committee. After accepting additional nominations from individual members present a complete list of nominees shall be posted. A preliminary vote shall then be taken and the tellers, appointed by the President to conduct the election, shall post immediately a final list showing the two nominees for each office receiving the highest number of votes. At the close of the first session, a final vote shall be taken. A majority of votes cast shall be necessary to a choice.

B. Such vacancies as may occur in the offices and in the various committees in the interval between annual meetings shall be filled by a majority vote of the Council.

ARTICLE V. *Meetings*

SECTION 1. The annual meeting of the Society shall be held at a time and place determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

SECTION 2. Special meetings may be held at such times and places as the Council may determine.

SECTION 3. At least four weeks before the annual meeting the Secretary shall send to each member a notice of the time and place of such meeting and shall make such announcements as the Council may direct.

ARTICLE VI. *Financial*

SECTION 1. The annual assessment shall be determined by majority vote at the annual Spring meeting, upon the recommendation of the Council, and shall be due at the close of each such meeting.

SECTION 2. Beyond the ordinary expenditures required by the routine business of the Society no money shall be disbursed save by the authority of the Council or Society.

SECTION 3. The treasurer shall make an annual report to the Society.

SECTION 4. All publication funds shall be kept in a separate account, subject to the control of the Board of Publications Trustees except that none of these funds may be diverted from the support of publications of the Society except by consent of the Council or the Society. A financial report shall be made by the Board at each annual meeting.

ARTICLE VII. *Quorum*

Ten members shall constitute a quorum for the transaction of business.

ARTICLE VIII. *By-Laws*

By-Laws shall be adopted, altered or repealed at any meeting by two-thirds vote of the ballots cast.

ARTICLE IX. *Amendments*

SECTION 1. Intended amendments to the Constitution shall be sent to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be indorsed in writing by at least three members.

SECTION 2. The Secretary shall give all members due notice of proposed amendments.

SECTION 3. A four-fifths vote of the members present shall be required for the adoption of an amendment.

ARTICLE X. *Official Publications*

SECTION 1. The President of the Society shall appoint, in consultation with the Council, and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publications Trustees; these members shall elect a Managing Editor for each of the official journals of the Society, and each Managing Editor, during the term of his service, shall act as an additional voting member of the Board of Publications Trustees and shall participate in all the activities of the Board except that of election of managing editors of the journals of the Society.

SECTION 2. The members of the Board of Publications Trustees, hereinafter termed "The Board," shall each serve for a term of three years, shall be subject to reappointment, and may hold office concurrently in the Society. At the first appointment, however, one member shall be appointed for three years, one member for two years, and one member for one year, in order that in the future, appointments may be made annually in rotation. The Board shall meet at least once annually (a quorum shall consist of three members) and shall report directly to the Society.

SECTION 3. The special functions of The Board shall be to consider and to investigate thoroughly all matters pertaining to the fiscal and editorial policies of the journals which may come to the Society or to its Council, to the Managing Editors, and to the members of The Board. The Board shall (1) administer the finances of the journals, (2) establish the publication policies of the journals, and (3) elect a Managing Editor for each of the journals of the Society (as described in Sec. 1).

SECTION 4. The Managing Editor of each journal shall nominate to The Board, members of the Society acceptable to him as Associate Editors. In the event that the Society should develop an International Journal, foreign Associate Editors who are not members of the Society are eligible for nomination and appointment to the Editorial Board of said Journal. From those nominated, The Board shall elect, for each journal, Associate Editors in such number as they shall consider adequate to fulfill the duties of that Editorial Board. The Managing Editor and each Associate Editor shall serve for three years, subject to reappointment, and may hold office concurrently in the Society. In the choice of The Boards of Editors, The Board is charged with the responsibility of obtaining editors with expert knowledge in the several fields of pharmacological research and with evidenced ability for critical and grammatical expression.

SECTION 5. The Boards of Editors of the journals shall meet on call of the respective Managing Editor, if possible just prior to or during the regular meetings of the Society, and may make recommendations to The Board concerning the improvement of the publication policies of the journals.

BY-LAWS

1. Papers to be read shall be submitted by the members of the Society to the Secretary, who, with the President, shall be empowered to arrange the program. No person may orally present more than one paper. In case of joint authorship, the name of the individual who will orally present the paper shall stand first. Papers not read shall appear on the program as read by title.

2. An abstract of a paper to be read before the Society shall be sent to the Secretary with the title. As early as possible after each meeting, the Secretary shall edit and publish the Proceedings of the Society together with abstracts in a publication authorized by the Society.

3. All applications for membership shall be accompanied by a copy of as many reprints as possible of the published work of the applicant.

4. Any member who has been an active member for thirty years, or who has retired for disability or age, may upon notification to the Treasurer be relieved from payment of dues.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY

Founded December 29, 1913; Incorporated August 31, 1950

OFFICERS, 1957–1958

President—EMORY D. WARNER, State University of Iowa, Iowa City.

Vice-President—WILLIAM B. WARTMAN, Northwestern University, Chicago 11, Illinois.

Secretary-Treasurer—J. F. A. MCMANUS, Univ. of Alabama Med. Ctr., Birmingham.

Past-President—F. W. HARTMAN, 7508 Glenriddle Road, Bethesda 14, Maryland.

Councilors—EMORY D. WARNER, WILLIAM B. WARTMAN, J. F. A. MCMANUS, F. W. HARTMAN, CYRUS C. ERICKSON (1957–58), JACOB FURTH (1957–59).

SPECIAL COMMITTEES

Meritorious Award or Honors Committee—DOUGLAS E. SPRUNT, *Chairman*; WILLIAM H. CARNES, FRANK W. HARTMAN, THOMAS KINNEY, SIDNEY MADDEN.

Publications Committee—WILLIAM B. WARTMAN, *Chairman*; ROBERT WISSLER, J. F. A. MCMANUS, J. J. LALICH.

Membership Survey Committee—CHARLES E. DUNLAP, *Chairman*; FRANK J. DIXON, WILLARD T. HILL, SHELDON C. SOMMERS, CHARLES L. YUILE.

Nutritional Pathology Committee—RUSSELL HOLMAN, *Chairman*; RICHARD FOLLIS, CONRAD L. PIRANI, W. STANLEY HARTROFT, ALVIN J. COX, HERBERT L. RATCLIFFE.

REPRESENTATIVES TO OTHER ORGANIZATIONS

Division of Medical Sciences, National Research Council—RUSSELL L. HOLMAN.

American Association for the Advancement of Science—CHARLES RANDALL, EMORY D. WARNER.

Eli Lilly Award Committee (Jointly with the Society of American Bacteriologists)—*Nominations:* ALVIN J. COX, JR.; *Awards:* WILLIAM M. HALE.

Commission for Biological Stains—J. F. A. MCMANUS.

Committee for Placement Service—KENNETH M. BRINKHOUS.

Intersociety Committee on Increasing Research Potential—HAROLD L. STEWART.

PAST OFFICERS

Presidents—**1914** R. M. PEARCE. **1915** THEOBALD SMITH. **1916** SIMON FLEXNER. **1917** LUDVIG HEKTOEN. **1918** H. GIDEON WELLS. **1919** W. G. MACCALLUM. **1920** W. H. PARK. **1921** F. G. NOVY. **1922** H. T. KARSNER. **1923** E. L. OPIE. **1924** A. S. WARTHIN. **1925** G. H. WHIPPLE. **1926** WADE H. BROWN. **1927** DAVID MARINE. **1928** E. B. KRUMBHAAR. **1929** W. F. PETERSEN. **1930** F. L. GATES. **1931** S. R. HAYTHORN. **1932** PEYTON ROUS. **1933** C. V. WELLER. **1934** S. B. WOLBACH. **1935** OSKAR KLOTZ. **1936** A. R. DOCHEZ. **1937** C. P. MILLER. **1938** MORTON MCCUTCHEON. **1939** E. W. GOODPASTURE. **1940** SHIELDS WARREN. **1941** J. L. BOLLMAN. **1942–1945** BALDUIN LUCKÉ. **1946** P. R. CANNON. **1947** D. H. SPRUNT. **1948** H. P. SMITH. **1949** J. G. KIDD. **1950** J. F. RINEHART. **1951** FRIEDA S. ROBSCHEIT-ROBBINS. **1952** S. C. MADDEN. **1953** D. MURRAY ANGEVINE. **1954** R. L. HOLMAN. **1955** H. L. STEWART. **1956** F. W. HARTMAN.

Vice-Presidents—**1914** J. S. ANDERSON. **1915** G. H. WHIPPLE. **1916–1917** LEO LOEB. **1918** W. G. MACCALLUM. **1919** W. H. PARK. **1920** F. G. NOVY. **1921** H. T. KARSNER. **1922** E. L. OPIE. **1923** A. S. WARTHIN. **1924** G. H. WHIPPLE. **1925** W. H. BROWN. **1926** DAVID MARINE. **1927** E. B. KRUMBHAAR. **1928** W. F. PETERSEN. **1929** F. L. GATES. **1930** S. R. HAYTHORN. **1931** PEYTON ROUS. **1932** C. V. WELLER. **1933** S. B. WOLBACH. **1934** OSKAR KLOTZ. **1935** A. R. DOCHEZ. **1936** C. P. MILLER. **1937** MORTON MCCUTCHEON. **1938** E. W. GOODPASTURE. **1939** SHIELDS WARREN. **1940** J. L. BOLLMAN. **1941** BALDUIN LUCKÉ. **1942–1945** P. R. CANNON. **1946** D. H. SPRUNT. **1947** H. P. SMITH. **1948** J. G. KIDD. **1949** J. F. RINEHART. **1950** F. S. ROBSCHEIT-ROBBINS. **1951** S. C. MADDEN. **1952** D. M. ANGEVINE. **1953** RUSSELL L. HOLMAN. **1954** H. L. STEWART. **1955** F. W. HARTMAN. **1956** EMORY D. WARNER.

Secretary-Treasurers—**1914** G. H. WHIPPLE. **1915–1916** PEYTON ROUS. **1917–1920** H. T. KARSNER. **1921–1923** WADE H. BROWN. **1924–1926** E. B. KRUMBHAAR. **1927–1929** C. V. WELLER. **1930–1933** C. P. MILLER. **1934–1936** SHIELDS WARREN. **1937–1939** P. R. CANNON. **1940–1945** H. P. SMITH. **1946–1948** F. S. ROBSCHEIT-ROBBINS. **1949–1950** SIDNEY C. MADDEN. **1951–1952** R. L. HOLMAN. **1953–57** CYRUS C. ERICKSON.

CONSTITUTION

Article I. *Name*

The Society shall be named "The American Society for Experimental Pathology."

Article II. *Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer affiliation with the workers in the other fields of experimental medicine.

Article III. *Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

Article IV. *Membership*

Section 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

Section 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

Section 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

Section 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

Section 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

Section 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

Article V. *Officers*

The management of the Society shall be vested in a Council of six members, consisting of a President, the Past President, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

Article VI. *Quorum*

Section 1. Three constitute a quorum of the Council. The Council decides by a majority vote.

Section 2. A quorum of the Society for transaction of business shall be 30 active members. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

Article VII. *Annual Meeting*

Section 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

Section 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

ARTICLE VIII. *Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION

Founded April 11, 1933; Incorporated November 16, 1934; Member of Federation 1940

OFFICERS, 1957-1958

President—R. R. WILLIAMS, 297 Summit Ave., Summit, New Jersey.

Vice-President—WILLIAM J. DARBY, Vanderbilt University, Nashville, Tennessee.

Acting Past-President—R. W. ENGEL, Virginia Polytechnic Institute, Blacksburg.

Secretary—GEORGE M. BRIGGS, National Institutes of Health, Bethesda 14, Maryland (1957-60).

Treasurer—J. B. BROWN, Ohio State University, Columbus.

Council—R. R. WILLIAMS, WILLIAM J. DARBY, R. W. ENGEL, JOHN B. BROWN, GEORGE M. BRIGGS, L. A. MAYNARD (1958), E. W. MCHENRY (1959), PAUL GYORGY (1960).

COMMITTEES

Nominating Committee—D. V. FROST, *Chairman*; C. M. MCCAY, O. L. KLINE, J. M. ORTEN, B. L. OSER.

Committee on Membership—A. E. HARPER, *Chairman*; R. M. LEVERTON, C. M. LYMAN, A. E. SCHAEFER, F. J. STARE.

Committee on Registry of Pathology of Nutritional Diseases (joint with American Society for Experimental Pathology)—HERBERT POLLACK, W. H. SEBRELL, JR., O. A. BESSEY, PAUL KLEMPERER, *Consultant*.

Committee on Biological Nomenclature (joint with American Society of Biological Chemists)—O. L. KLINE, P. L. WHITE.

REPRESENTATIVES TO OTHER ORGANIZATIONS

Representative to the Division of Biology and Agriculture, to the Agricultural Research Institute and to the Food and Nutrition Board, National Research Council—N. R. ELLIS.

Representatives to American Association for the Advancement of Science Council—HOWARD A. SCHNEIDER (Section C), PAUL L. DAY (Section N).

Representative to FAO—JAMES M. HUNDLEY.

Representative to Federation Public Information Committee—R. W. ENGEL.

Editorial Board, Journal of Nutrition

GEORGE R. COWGILL, *Editor* (1959); GRACE A. GOLDSMITH (1958), W. D. SALMON (1958), L. D. WRIGHT (1958), J. S. DINNING (1959), J. M. ORTEN (1959), C. R. TREADWELL (1959), CLARENCE P. BERG (1960), C. G. MACKENZIE (1960), H. R. BIRD (1960), R. W. ENGEL (1961), P. L. HARRIS (1961), H. A. SCHNEIDER (1961).

PAST OFFICERS

Presidents—**1933** L. B. MENDEL. **1934-1935** J. R. MURLIN. **1936** E. F. DU BOIS. **1937** MARY S. ROSE. **1938** E. V. MCCOLLUM. **1939** H. C. SHERMAN. **1940** T. M. CARPENTER. **1941** A. G. HOGAN. **1942** L. A. MAYNARD. **1943** H. B. LEWIS. **1944** ICIE G. MACY-HOOBLER. **1945** W. C. ROSE. **1946** A. H. SMITH. **1947** R. M. BETHKE. **1948** E. M. NELSON. **1949** C. G. KING. **1950** W. H. GRIFFITH. **1951** C. M. MCCAY. **1952** PAUL L. DAY. **1953** C. A. ELVEHJEM. **1954** G. R. COWGILL. **1955** W. H. SEBRELL, JR. **1956** H. J. DEUEL, JR.

Vice-Presidents—**1933** H. C. SHERMAN. **1934-1935** E. F. DUBOIS. **1936** MARY S. ROSE. **1937** E. V. MCCOLLUM. **1938-1939** T. M. CARPENTER. **1940** A. G. HOGAN. **1941** L. A. MAYNARD. **1942** H. B. LEWIS. **1943** ICIE G. MACY-HOOBLER. **1944** W. C. ROSE. **1945** A. H. SMITH. **1946** R. M. BETHKE. **1947** E. M. NELSON. **1948** C. G. KING. **1949** W. H. GRIFFITH. **1950** C. M. MCCAY. **1951** P. L. DAY. **1952** C. A. ELVEHJEM. **1953** GEORGE R. COWGILL. **1954** W. H. SEBRELL, JR. **1955** H. J. DEUEL, JR. **1956** R. R. WILLIAMS.

Secretaries—**1933** J. R. MURLIN. **1934-1937** ICIE G. MACY. **1938-1940** L. A. MAYNARD. **1941-1944** A. H. SMITH. **1945-1947** H. E. CARTER. **1948-1950** J. H. ROE. **1951-1953** J. M. ORTEN. **1954-1957** R. W. ENGEL.

Treasurers—**1933** J. R. MURLIN. **1934** W. M. BOOTHBY. **1935-1939** G. R. COWGILL. **1940-1943** W. H. SEBRELL, JR. **1944-1946** E. M. NELSON. **1947-1949** N. R. ELLIS. **1950-1952** N. B. GUERRANT. **1953-1955** O. L. KLINE.

CONSTITUTION

1. The name of the proposed society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the society are to further the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, Vice-President, Past President,

Secretary, Treasurer and three additional members.

BY-LAWS

Article I. *Membership*

Section 1. *Eligibility for membership:* Members. Qualified investigators who have independently conducted and published meritorious original investigations in some phase of the chemistry or physiology of nutrition and who have shown a professional interest in nutrition for at least 5 years shall be eligible for membership in the Society.

Section 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

Section 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

Section 4. *Forfeiture:* If a majority of the Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

Article II. *Meetings and Quorum*

Section 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

Section 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

Section 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III. *Officials*

Section 1. *Officers:* The officers shall be a President, and a Vice-President, who shall be elected annually, and a Secretary and Treasurer, each of whom shall be elected to serve for a term of three years. These officers shall be elected by the members of the Society. Their terms of office shall commence on July 1 of the year in which they are elected.

Section 2. *Council:* The officers so elected, the Past President and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as "The Council." (When this provision is first put into effect one member shall be elected for 1 year, one for 2 years and the third for 3 years.)

Section 3. *Duties of officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

Article IV. *The Council*

Section 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

Section 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

Article V. *Nominating Committee*

Section 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

Section 2. *Nomination of officials:* A. The Nominating Committee shall make at least one nomination for each of the four offices, for each of the additional positions on the Council to be filled by vote of the members and for each of the positions on the Editorial Board to be vacated at the time of the annual meeting. Any member of the

Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the member wishes to propose, and at the same time shall notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SECTION 3. *Election of officials:* A. At the beginning of the business session the Secretary shall present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SECTION 4. *Filling of vacancies:* A. Should a vacancy occur in any elective position, the Council, by majority vote, shall have the power to appoint a member of the Society to fill the unexpired term until the following election. B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SECTION 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SECTION 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

ARTICLE VII. *The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates *The Journal of Nutrition* as its official organ of publication.

SECTION 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of *The Journal of Nutrition*, the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of *The Journal of Nutrition* shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for reëlection. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. In the event of a vacancy in the membership of the Editorial Board occurring through death or other reason, the Nominating Committee, for each such vacancy to be filled shall make an additional nomination. In this event the nominees elected who receive the greatest number of votes shall serve the longest term of vacancies to be filled. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

ARTICLE IX. *Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SECTION 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1957–1958

President—JOHN H. DINGLE, Western Reserve University, Cleveland Ohio.

Honorary President—ARTHUR F. COCA, Oradell, New Jersey.

Vice-President—JOSEPH E. SMADEL, National Institutes of Health, Bethesda 14, Maryland.

Secretary-Treasurer—F. S. CHEEVER, University of Pittsburgh, Pittsburgh 13, Pennsylvania.

Council—WILLIAM C. BOYD, ALBERT H. COONS, REBECCA C. LANCEFIELD, WERNER HENLE, JOHN Y. SUGG.

REPRESENTATIVES TO OTHER ORGANIZATIONS

Division of Medical Sciences, National Research Council—C. PHILIP MILLER.

Council of the American Association for the Advancement of Science—EDWARD E. FISCHEL, DAVID T. SMITH.

Eli Lilly Award Committee (Joint with Society of American Bacteriologists)—*For nominations:* SIDNEY RAFFEL. *For award:* ELVIN A. KABAT.

Editorial Board, Journal of Immunology

JOHN Y. SUGG (1959), *Editor-in-Chief*; JOHN F. ENDERS (1958), COLIN MACLEOD (1961), JULES FREUND (1959), GEOFFREY EDSALL (1959), WILLIAM C. BOYD (1961).

PAST OFFICERS

Presidents—**1913** GERALD B. WEBB. **1915** JAMES W. JOBLING. **1916** RICHARD WEIL. **1917** JOHN A. KOLMER. **1918** WILLIAM H. PARK. **1919** HANS ZINSSER. **1920** RUFUS I. COLE. **1921** FREDERICK P. GAY. **1922** GEORGE W. MCCOY. **1923** H. GIDEON WELLS. **1924** FREDERICK G. NOVY. **1925** WILFRED H. MANWARING. **1926** LUDVIG HEKTOEN. **1927** KARL LANDSTEINER. **1928** EUGENE L. OPIE. **1929** OSWALD T. AVERY. **1930** STANHOPE BAYNE-JONES. **1931** ALPHONSE R. DOCHEZ. **1932** AUGUSTUS B. WADSWORTH. **1933** THOMAS M. RIVERS. **1934** FRANCIS G. BLAKE. **1935** WARFIELD T. LONGCOPE. **1936** SANFORD B. HOOKER. **1937** CARL TENBROECK. **1938** DONALD T. FRASER. **1939** GEORGE P. BERRY. **1940** PAUL R. CANNON. **1941** KARL F. MEYER. **1942–1945** JACQUES J. BRONFENBRENNER. **1945–1947** MICHAEL HEIDELBERGER. **1947** LLOYD D. FELTON. **1948** MICHAEL HEIDELBERGER. **1949** THOMAS FRANCIS, JR. **1950** GEOFFREY EDSALL. **1951** COLIN M. MACLEOD. **1952** JOHN F. ENDERS. **1953** THOMAS P. MAGILL. **1954** A. M. PAPPENHEIMER, JR. **1955** JULES FREUND. **1956** MERRILL W. CHASE.

Vice-Presidents—**1913–1915** GEORGE W. ROSS. **1915** GEORGE P. SANBORN. **1916** JOHN A. KOLMER. **1947** MICHAEL HEIDELBERGER. **1948** LLOYD D. FELTON. **1949** MICHAEL HEIDELBERGER. **1950** COLIN M. MACLEOD. **1951** JOHN F. ENDERS. **1952** THOMAS P. MAGILL. **1953** A. M. PAPPENHEIMER, JR. **1954** JULES FREUND. **1955** MERRILL W. CHASE. **1956** JOHN H. DINGLE.

Secretary—**1913–1918** MARTIN J. SYNOTT. **1946–1947** ARTHUR F. COCA.

Treasurer—**1913–1918** WILLARD J. STONE. **1946–1947** A. J. WEIL.

Secretary-Treasurer—**1918–1945** ARTHUR F. COCA. **1948–1950** JULES FREUND. **1951–1953** JOHN Y. SUGG. **1954–** F. S. CHEEVER.

CONSTITUTION

(*As revised, 1949*)

ARTICLE I. *Name*

This association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

ARTICLE II. *Object*

The purpose of the Association shall be to advance knowledge of immunology and related disciplines, and to facilitate interchange of ideas and information among investigators in the various fields.

ARTICLE III. *Members*

SECTION 1. The Association shall consist of active members, members emeriti and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association may apply for active membership. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, and a

list of reprints of publications. The Council shall determine eligibility and post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 3. Failure to pay dues for three successive years shall annul membership. The Council may reinstate a member if an acceptable explanation is submitted and all indebtedness to the Association is liquidated. Payment of such indebtedness may be waived by unanimous vote of the Council if circumstances justify such action.

SECTION 4. If a two-thirds majority of the Council decides that the best interests of the Association require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defense before acting. Upon recommendation of a two-thirds majority of the Council, the Secretary shall send a notice of the decision to each active member at least six weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned, and he shall cease to be a member of the Association.

SECTION 5. An active member of the Association for twenty years upon retirement because of age or disability, may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association and shall not receive the Journal without payment.

SECTION 6. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council, shall place nominations for honorary membership on the annual ballot.

ARTICLE IV. *Officers*

SECTION 1. The Association shall be governed by a Council, which shall consist of the Officers of the Association and five Councilors, one of whom shall be the Editor-in-Chief of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer. The duties of the two latter may be performed by one or two individuals as determined by vote of the Association. (See By-Law # 7.)

SECTION 3. The President, the Vice President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. Only the Secretary and the Treasurer are eligible to serve for successive terms in their respective offices. The term of office shall begin the day after the end of the annual meeting.

SECTION 4. One Councilor shall be elected each year to serve for a term of four years. He may however serve in any other elective office immediately after expiration of his term as Councilor.

SECTION 5. The President shall appoint a Nominating Committee of three (or more) members not currently serving on the Council of the Association and shall designate the Chairman. The Committee shall submit nominations for the offices of President, Vice President, Secretary, Treasurer, and Councilor. They may nominate the member currently serving as Vice President for the office of President, and the Councilor who is serving his fourth year for the office of Vice President. They shall submit the names of three members of the Association as candidates for the office of Councilor for a four-year term. The Nominating Committee shall confer at least three months before the annual meeting and shall transmit its nominations, over the signatures of the majority of the Committee, to the Secretary at least two months before the annual meeting. Other names may be added to the ballot upon petition of at least twenty-five members of the Association to the Secretary at least two months before the annual meeting. The Secretary shall send to each member of the Association, at least six weeks before the annual meeting, a ballot containing the list of all such nominees.

SECTION 6. The members of the Association shall vote on the nominations by secret ballot by mail. All ballots must be in the hands of the Secretary one week before the annual meeting. At the time of the annual meeting the Secretary shall present all the valid sealed ballots received by him to the tellers appointed by the President. A plurality of votes shall be sufficient for election.

SECTION 7. The Vice President shall substitute for the President when necessary. If both the President and Vice President are unable to serve, the senior Councilor shall temporarily assume the duties of President. Should a vacancy occur in the office of Secretary or Treasurer, or Councilor, the Council by a majority vote shall appoint a member to fill the unexpired term until the following election. In the event of a vacancy in the Council, the members shall in the following election choose two Councilors from among six nominees whose names shall be selected by the Nominating Committee and included on the ballot as above. Moreover, in this event the terms of the four Councilors shall be adjusted so as to provide an orderly pro-

gression within the general sense of the Constitution.

Article V. *Meetings*

Section 1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine. Regular meetings shall be open to all members of the Association. The members present at the annual meeting of the Association shall constitute a quorum.

Section 2. A meeting of the Council shall be held prior to the annual business meeting of the Association. A quorum of the Council for this meeting shall be five.

Section 3. In case of equal division of votes, the President shall cast the decisive ballot.

Section 4. Minutes of the annual meeting of the Council and of the annual business meeting of the Association shall be published in the form of a news-letter and be distributed only to members of the Association. The annual report of the Treasurer shall be included in this news-letter.

Article VI. *Business*

Section 1. The fiscal year of the Association shall begin March first.

Section 2. Annual dues, upon recommendation of the Council, shall be determined by a majority vote at the annual meeting of the Association.

Article VII. *Publication*

Section 1. The Journal of Immunology, which is the property and official organ of this Association, shall be administered for the Association by an Editorial Board.

Section 2. An Editor-in-Chief shall be elected from the membership by a majority vote of the Council to serve for four years. His term of office shall be subject to renewal. He shall appoint with the consent of the Council an Editorial Board of four to six members to serve for four years. The Editor-in-Chief and the members of the Editorial Board shall be responsible for the editorial conduct of the Journal.

Section 3. The Editor-in-Chief shall, with the consent of the Council, appoint from the active members Associate Editors as needed. These Associate Editors are to be chosen because of their ability in specialized fields.

Section 4. The Editor-in-Chief shall make a report of his stewardship of the Journal at the annual meeting and in this report shall summarize the editorial situation and all matters dealing with finances. He shall submit to the Council statements relating to the number of manuscripts received, rejected, accepted, and published during the year; changes in editorial personnel of editors; a complete summary of circulation and of finances and of any other information which the Editorial Board may feel to be pertinent or which may be required by the Council.

Article VIII. *Amendments*

Section 1. Proposed changes in the Constitution shall be submitted by at least five members in writing through the Secretary to the President. The President shall then appoint a committee of at least three members which shall communicate its recommendations to the President for consideration by the Council. The Council shall then advise the Secretary to submit the recommendations of the committee to the membership of the Association for approval with the annual ballot. A change in the Constitution shall require a two-thirds majority of the votes cast by the members at the annual meeting and shall require confirmation by a majority in a mail vote in which at least 50% shall have participated.

Section 2. As an alternative procedure a proposed change in the Constitution may be submitted directly to the Council by petition of one-tenth of the total active membership. Under this circumstance the Council is required to arrange for a vote by the members as heretofore described.

Section 3. Proposed changes in By-Laws may be adopted by two-thirds vote of members present at the annual meeting.

BY-LAWS

1. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

2. The President may appoint a Past President or a Past Councilor as pro tempore Councilor at any stated meeting of the Council at which a quorum is not present.

3. The Council may transact and vote by mail on such business as cannot be conveniently transacted at meetings.

4. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Any member in good standing shall have the right to submit a paper. The privilege of presentation may be extended to non-members upon recommendation of active members. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of three or more members of the Editorial Board of the Journal of Immunology whose decision shall be final.

5. Each member who signifies his intention of reading a paper at any session may specify the length of time which its presentation shall require. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper. The time allotted shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary.

6. If by force of circumstances it should be impossible to hold the annual meeting, the election of Officers and Council may be carried out entirely by mail.

7. The offices of Secretary and Treasurer are combined and shall be held by one person.

8. Official or invited addresses presented at the annual meeting shall be given immediate priority in publication, unless the Editor-in-Chief shall be otherwise instructed by majority vote of the Council.

9. Dues are payable on or before January 1st and subscriptions to the Journal will be lapsed if not paid by this date.

10. If the Editor-in-Chief is unable to attend the stated meeting of the Council, he may designate an alternate from the membership of the Editorial Board.

ALPHABETICAL LIST OF MEMBERS OF THE SIX SOCIETIES[1]

(1) The American Physiological Society
(2) The American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

Number and year in parentheses following each name indicate Society affiliation and year of election
H signifies honorary member; R signifies retired status

Abbott, Lynn D. F., Jr., Ph.D. Med. College of Virginia, Richmond 19, *Prof. of Biochemistry.* (2, 1948)

Abell, Liese L., Ph.D. Columbia Univ. Research Service, Goldwater Memorial Hosp., Welfare Island, New York City 17. *Asst. Prof. of Biochemistry, Columbia Univ. College of Physicians and Surgeons.* (2, 1957)

Abood, Leo G., Ph.D. Univ. of Illinois, College of Medicine, Dept. of Psychiatry, Chicago. *Assoc. Prof. of Biochemistry and Neurophysiology* (1, 1951)

Abraham, Samuel, Ph.D. Univ. of California Med. School, Berkeley 4. *Asst. Research Physiologist.* (2, 1956)

Abrams, Adolph, Ph.D. Univ. of Colorado Med. School, Denver 20. *Asst. Prof. of Biochemistry.* (2, 1955)

Abrams, Richard, Ph.D. Montefiore Hospital, Inst. of Research, 3459 Fifth Ave. at Darragh, Pittsburgh 13, Pa. *Assoc. Dir.* (2, 1953)

Abramson, David I., M.D. Univ. of Illinois, Dept. of Physical Medicine, Chicago 12. *Prof. and Head of Dept.; Attending Physician, Michael Reese and Mt. Sinai Hosps.* (1, 1937)

Abramson, Harold A., M.D. Biological Lab., Cold Spring Harbor, N. Y. *Research Psychiatrist; Consultant in Research Psychiatry, State Hosp., Central Islip, N. Y.* (1, 1930; 2, 1934)

Abreu, Benedict E., Ph.D., M.D. Pitman-Moore Co., Indianapolis 6, Ind. *Assoc. Research Dir.* (3, 1941)

Acheson, George H., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Pharmacology.* (3, 1945)

Achor, Leonard B., Ph.D., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc.* (3, 1957)

Ackermann, W. Wilbur, Ph.D. 116 N. State St., Ann Arbor, Mich. *Assoc. Prof. of Epidemiology, Univ. of Mich.* (2, 1952; 6, 1953)

Adams, Elijah, M.D. New York Univ. College of Medicine, Dept. of Pharmacology, New York City. *Assoc. Prof.* (2, 1954)

Adams, Georgian, M.A., D.Sc. U.S. Dept. of Agriculture, State Exper. Stations Div., Agric. Research Service, Washington 25, D. C. *Agricultural Admin.* (5, 1946)

Adams, John M., M.D., Ph.D. Univ. of California, 405 Hilgard Ave., Los Angeles 24. *Prof. and Chairman of Pediatrics.* (4, 1947)

Adams, Mildred, Ph.D. Dept. of Agriculture, Human Nutrition Research Branch, Beltsville, Md. *Head, Nutritional Requirements Sec.* (2, 1934)

Adams, W. Lloyd, M.D., Ph.D. 900 First Natl. Bank Bldg., Lexington 6, Ky. *Practicing Ophthalmologist.* (3, 1942)

Adams, Wright R., M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Prof. and Chairman of Medicine.* (1, 1946)

Addison, William H., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Histology and Embryology.* (1R, 1928)

Ades, Harlow Whiting, Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Prof. of Anatomy.* (1, 1953)

Adey, W. R., M.D. Univ. of California Med. Ctr., Los Angeles 24. (1, 1955)

Adler, Frank L., Ph.D. Public Health Research Inst. of City of New York, Foot of E. 15th St., New York City 9. *Associate Member.* (6, 1953)

Adler, Harry F., Ph.D., M.D. 274 W. Ware Blvd., San Antonio, Tex. (1, 1943)

Adler, Terrine K., Ph.D. Univ. of California Med. Center, San Francisco 22. *Asst. Research Pharmacologist.* (3, 1954)

Adolph, Edward Frederick, Ph.D. Univ. of Rochester Med. Ctr., Rochester, N. Y. *Prof. of Physiology.* (1, 1921)

[1] *Includes changes received up to October, 1957*

Adolph, William H., Ph.D. Sterling Hall of Medicine, Yale Univ., New Haven, Conn. (**2R**, 1946; **5**, 1934)

Adrian, E. D. Cambridge Univ., Trinity College, Cambridge, England. (**1H**, 1946)

Agress, Clarence M., M.D. Univ. of California, Los Angeles. *Assoc. Clin. Prof. of Medicine.* (**1**, 1955)

Ahlquist, Raymond P., Ph.D. Med. College of Georgia, Augusta. *Prof. and Chairman of Dept. of Pharmacology.* (**1**, 1952; **3**, 1945)

Ahrens, Edward H., Jr., M.D. Rockefeller Inst. for Med. Research, New York City 21. *Assoc. Prof.* (**2**, 1956)

Ajazzi-Mancini, Mario, M.D. Univ. of Firenze, Dept. of Pharmacology, Viale G. B. Morgagni 65, Firenze, Italy. *Dir. of Pharmacology* (**3**, 1951)

Ajmone-Marsan, Cosimo, M.D. Natl. Inst. of Neurological Diseases & Blindness, NIH, Bethesda 14, Md. *Chief, Branch of EEG.* (**1**, 1956)

Akers, Robert P., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Research Physiologist.* (**1**, 1955)

Akert, Konrad, M.D. Univ. of Wisconsin, Service Memorial Insts., Madison. *Assoc. Prof. of Physiology.* (**1**, 1957)

Aladjem, Frederick, Ph.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Instr. in Med. Microbiology; Research Fellow, Calif. Inst. of Tech.* (**6**, 1957)

Albanese, Anthony A., Ph.D. St. Luke's Convalescent Hospital, Nutritional Research Lab., King St., Greenwich, Conn. *Dir. of Research.* (**2**, 1944)

Albaum, Harry G., Ph.D. Brooklyn College, Bedford Ave. and Ave. H, Brooklyn, N. Y. *Prof. of Biology.* (**2**, 1947)

Albert, A., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head, Endocrinology Lab.; Prof. of Physiology, Mayo Fndn.* (**1**, 1947)

Alberty, Robert A., Ph.D. Univ. of Wisconsin, Dept. of Chemistry, Madison 6. *Professor.* (**2**, 1956)

Albritton, Errett C., M.D. Div. of Research Grants, NIH, Bethesda 14, Md. *Spec. Asst. to Scientific Dir.* (**1R**, 1933)

Alden, Roland H., Ph.D. Univ. of Tennessee, Medical Units, Memphis 3. *Prof. and Chief, Div. of Anatomy.* (**1**, 1949)

Alderton, Gordon, M.S. U. S. Dept of Agriculture, Western Regional Research Br., Albany 10, Calif. *Chemist.* (**2**, 1952)

Alexander, Benjamin, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir., Med. Serv.; Assoc. Prof. of Medicine, Harvard Med. School.* (**2**, 1951)

Alexander, Robert S., Ph.D. Albany Med. College, Dept. of Physiology, Albany, N. Y. *Prof. and Chairman of Dept.* (**1**, 1946)

Alfin-Slater, Roslyn B., Ph.D. Univ. of Southern California, School of Medicine, Dept. of Biochemistry and Nutrition, Los Angeles 7. *Visiting Assoc. Prof. of Biochemistry.* (**2**, 1952; **5**, 1955)

Alfredson, Bernard V., D.V.M., M.S. Michigan State Univ., Dept. of Physiology and Pharmacology, East Lansing. *Prof. and Head of Dept.* (**1**, 1951)

Algire, Glenn H., M.D. Natl. Cancer Inst., Bethesda, Md. *Med. Dir., USPHS.* (**4**, 1945)

Allan, Frank N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Exec. Dir. of the Med. Dept.* (**4**, 1930)

Allen, Charles Robert, Ph.D., M.D. Univ. of Texas School of Medicine, Galveston. *Prof. and Chairman, Dept. of Anesthesiology.* (**1**, 1943)

Allen, Frank W., Ph.D. Univ. of California, 1557 Life Science Building, Berkeley. *Prof. of Physiological Chemistry.* (**2**, 1947)

Allen, Frederick M., M.D. 1031 Fifth Ave., New York City. (**1R**, 1924; **4**, prior to 1920)

Allen, J. Garrott, M.D. Univ. of Chicago, Univ. Clinics, Chicago, Ill. *Prof. of Surgery.* (**1**, 1943)

Allen, Lane, Ph.D., M.D. Med. College of Georgia, University Place, Augusta. *Prof. of Gross Anatomy.* (**1**, 1939)

Allen, Shannon C., Ph.D. Chicago College of Osteopathy, Dept. of Physiology, Chicago 15, Ill. *Asst. Prof.* (**1**, 1945)

Allen, Thomas H., Ph.D. U. S. Army Med. Nutrition Lab., Fitzsimons Army Hosp., Denver 8, Colo. *Chief, Physiology Div.* (**1**, 1947)

Allen, Willard M., M.D. Washington Univ. School of Medicine, 630 S. Kingshighway, St. Louis 10, Mo. *Prof. of Obstetrics and Gynecology.* (**1**, 1934)

Alles, Gordon A., Ph.D. 770 S. Arroyo Parkway, Pasadena 5, Calif. *Prof. of Pharmacology in Residence, Univ. of California Med. School, Los Angeles; Lecturer in Pharmacology, Univ. of California Med. School, San Francisco; Research Assoc. in Biology, California Inst. of Technology.* (**1**, 1932; **3**, 1941)

Alling, Eric L., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. in Medicine; Assoc. in Radiation-Biology.* (**4**, 1947)

Allison, James B., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Physiology and Biochemistry; Dir. of Bureau of Biological Research.* (**2**, 1946; **5**, 1949)

Almquist, Herman J., Ph.D., D.Sc. The Grange Co., Modesto, Calif. *Dir. of Research and Vice-Pres.* (**2**, 1937; **5**, 1937)

Alpen, Edward L., Ph.D. U. S. Naval Radiological Defense Lab., Div. of Biological and Med. Sciences, San Francisco 24, Calif. *Head, Biophysics Br.* (**1**, 1955)

Altamirano, Mario, M.D. Instituto de Fisiologia,

Universidad de Chile, Santiago, Chile, S. A. *Asst. Prof. of Physiology.* (**1,** 1955)

Altland, Paul D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1950)

Altschul, Aaron M., Ph.D. Southern Regional Research Lab., USDA, P. O. Box 7307, New Orleans 19, La. *Head, Oilseed Sec.* (**2,** 1949)

Altshuler, Charles H., M.D. St. Joseph's Hosp., Milwaukee, Wis. *Pathologist.* (**4,** 1956)

Alvarez, Walter C., M.D. 700 N. Michigan Ave., Chicago 11, Ill. (**1R,** 1917; **3R,** 1921)

Alving, Alf Sven, M.D. Billings Hospital, Univ. of Chicago, 950 E. 59th St., Chicago 37, Ill. *Prof. of Medicine.* (**1,** 1939)

Alvord, Ellsworth C., Jr., M.D. Baylor Univ. College of Medicine, Houston, Texas. *Assoc. Prof. of Neurology and Pathology.* (**4,** 1956)

Amassian, Vahe Eugene, M.B., B.Ch. Albert Einstein College of Medicine, Yeshiva Univ., New York City 61. *Prof. of Physiology.* (**1,** 1953)

Amberg, Samuel, M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. Emeritus of Pediatrics, Mayo Foundation.* (**1R,** 1903; **2R,** 1906; **3R,** 1909)

Amberson, William R., Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Prof. of Physiology.* (**1,** 1924)

Ambrose, Anthony M., Ph.D. U. S. Army Environmental Health Lab., Army Medical Service, Army Chemical Center, Md. *Chief, Toxicology Div.* (**3,** 1937)

Ambrus, Clara M., M.D., Ph.D. Roswell Park Memorial Inst., Sec. of Physiology and Pharmacology, Buffalo 3, N. Y. *Prin. Cancer Research Scientist, State of New York.* (**1,** 1957; **3,** 1953)

Ambrus, Julian L., M.D., Ph.D. Roswell Park Memorial Inst., Sec. of Physiology and Pharmacology, Buffalo 3, N. Y. *Asst. Prof. of Pharmacology, Univ. of Buffalo Med. School.* (**1,** 1957; **3,** 1953)

Ames, Bruce N., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Biochemist.* (**2,** 1957)

Ames, Stanley R., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Research Assoc.* (**2,** 1948)

Anchel, Marjorie, Ph.D. New York Botanical Garden, Bronx Park, New York City 58 (Fordham P.O.). *Research Assoc.* (**2,** 1951)

Andersch, Marie A., Ph.D. University Hospital, Baltimore, Md. *Asst. Dir. of Lab.; Assoc. Prof. of Biochemistry in Medicine.* (**2,** 1940)

Andersen, Dorothy H., M.D. Presbyterian Hosp., 622 W. 168th St., New York City. *Assoc. Prof. of Pathology, Columbia Univ.* (**4,** 1935)

Anderson, Carl E., Ph.D. Univ. of North Carolina, School of Medicine, Dept. of Biological Chemistry, Chapel Hill. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Anderson, Elizabeth P., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chemist, Leukemia Studies Sec.* (**2,** 1957)

Anderson, Evelyn, M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Chief, Section of Endocrinology.* (**1,** 1934)

Anderson, Hamilton H., M.D. Univ. of California School of Medicine, Dept. of Pharmacology and Experimental Therapeutics, San Francisco 22. *Professor and Chairman of Dept.* (**3,** 1931)

Anderson, Joseph T., Ph.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Minneapolis 14. *Assoc. Prof.* (**5,** 1952)

Anderson, Laurens, Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Assoc. Prof. of Biochemistry.* (**2,** 1953)

Anderson, Norman G., Ph.D. Biology Div., Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Biologist.* (**1,** 1954)

Anderson, Robert C., B.S. Lilly Research Labs., Eli Lilly & Company, Indianapolis 6, Ind. *Head, Dept. of Toxicology.* (**3,** 1954)

Anderson, Rubert S., Ph.D. Medical Directorate, Army Chemical Center, Md. (**1,** 1948)

Anderson, Rudolph J., Ph.D. Sterling Lab., Yale Univ., New Haven, Conn. *Prof. of Chemistry.* (**2,** 1915)

Anderson, W. A. D., M.D. Univ. of Miami School of Medicine, Coral Gables 34, Fla. *Prof. of Pathology.* (**4,** 1941)

Anderson, William E., M.A. Tolland St., Tolland, Conn. (**2R,** 1931; **5,** 1933)

Andervont, H. B., D.Sc. Natl. Cancer Inst., Bethesda, Md. *Chief, Lab. of Biology.* (**4,**1939)

Andres, Reubin, M.D. Johns Hopkins Univ. Hosp., Baltimore 5, Md. *Asst. Prof., Environmental Medicine.* (**1,** 1955)

Andresen, Richard H., M.D. Presbyterian-St. Luke's Hosp., Chicago 12, Ill. *Research Assoc. in Pathology.* (**4,** 1957)

Andrews, James C., Ph.D. Box 668, Conway, N. H. *Emeritus Prof. of Biological Chemistry and Nutrition, School of Medicine, Univ. of North Carolina.* (**2R,** 1925)

Andrus, E. Cowles, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician in Charge, Adult Cardiac Clinic; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (**1,** 1925)

Andrus, Stephen B., M.D. Harvard School of Public Health, Dept. of Nutrition, Boston 15, Mass. *Asst. Prof. of Pathology.* (**4,** 1956)

Anfinsen, Christian B., Jr., Ph.D. Natl. Heart Inst., Lab. of Cellular Physiology and Metabolism, NIH, Bethesda 14, Md. *Lab. Chief.* (**2,** 1946)

Angerer, Clifford, A. Ph.D. Dept. of Physiology, Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (**1,** 1943)

Angevine, D. Murray, M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Pathology.* (**4,** 1940)

Anker, H. S., M.D., Ph.D. Univ. of Chicago, Dept.

of Biochemistry, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof.* (**2**, 1949)

Annegers, John H., Ph.D., M.D. Northwestern Univ. Med. School, Dept. of Physiology, 313 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Physiology.* (**1**, 1949)

Ansbacher, Stefan, Sc.D. Jocinah Farms, R.R. 1., Marion, Ind. *Scientific and Med. Consultant.* (**2**, 1939)

Anslow, W. Parker, Jr., Ph.D. Univ. of Virginia, School of Medicine, Dept. of Physiology, Charlottesville. *Prof. and Chairman of Dept.* (**1**, 1955; **2**, 1948)

Anson, Mortimer L., Ph.D. % Daniel Hoffman, 342 Madison Ave., New York City 17. (**2**, 1937)

Antopol, William, M.D. Beth Israel Hospital, 10 Livingstone Pl., New York City 3. *Dir., Research, Joseph H. Levy Fndn.* (**4**, 1953)

Apperly, Frank L., D.Sc., M.D. Med. College of Virginia, Richmond. *Prof. of Pathology.* (**4**, 1936)

Aprison, Morris H., Ph.D. Indiana Univ. Med. Ctr., Inst. of Psychiatric Research and Dept. of Psychiatry, Indianapolis. *Asst. Prof. of Biochemistry.* (**1**, 1955)

Aptekman, Paul Myron, Ph.D. The Wistar Inst., 36th and Woodland Ave., Philadelphia 4, Pa. *Curator of the Museum; Fellow in Chemistry.* (**6**, 1953)

Archdeacon, James W., Ph.D. Univ. of Kentucky, Dept. of Anatomy and Physiology, Lexington. *Professor.* (**1**, 1955)

Archibald, Reginald M., Ph.D., M.D. Rockefeller Inst. Hospital, 66th St. and York Ave., New York City 21. *Member and Prof., Rockefeller Inst. for Med. Research.* (**2**, 1947)

Arkin, Aaron, M.D., Ph.D. Suite 2006, 25 E. Washington St., Chicago 2, Ill. *Rush Prof. of Medicine, Univ. of Illinois; Prof. of Medicine, Cook County Grad. School.* (**1R**, 1914; **3**, 1919)

Armstrong, Harry G., M.D. USAFE, APO 633, New York City. *Maj. Gen., Surgeon, USAFE MC.* (**1R**, 1948)

Armstrong, Marvin D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Assoc. Research Prof., Dept. of Biochemistry.* (**2**, 1951)

Armstrong, Philip B., M.D. State Univ. of N. Y. College of Medicine, Syracuse 10, N.Y. *Prof. of Anatomy.* (**1**, 1945)

Armstrong, W. D., M.D., Ph.D. Univ. of Minnesota, Med. School, 227 Millard Hall, Minneapolis 14. *Prof. and Head of Physiological Chemistry.* (**1**, 1955; **2**, 1938)

Arnold, Aaron, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head of Nutritional Research Lab.* (**5**, 1947)

Arnold, James S., M.D. U. S. Naval Defense Lab., San Francisco 22, Calif. *Head of Pathology Lab.* (**4**, 1956)

Arnold, Lloyd, A.M., M.D. 1538 E. 57th St., Chicago, Ill. (**4**, 1930; **6**, 1925)

Arnow, L. Earle, Ph.D., M.D. Merck, Sharp & Dohme, Research Labs., Div. of Merck & Co., Inc., West Point, Pa. *Vice Pres., Biological Research Area; Exec. Dir., Merck Inst. for Therapeutic Research.* (**2**, 1940)

Arnrich, Lotte, Ph.D. Iowa State College, Ames. *Assoc. Prof. of Foods and Nutrition.* (**5**, 1957)

Aronoff, S., Ph.D. Iowa State College, Botany Hall, Ames. *Professor.* (**2**, 1954)

Aronson, Joseph D., M.D. The Henry Phipps Inst., Univ. of Pennsylvania, Philadelphia. *Prof. of Bacteriology* (**4**, 1927; **6**, 1925)

Artom, Camillo, M.D., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem, N. C. *Prof. of Biochemistry.* (**2**, 1944)

Artusio, Joseph F., Jr., M.D. Cornell Univ. Med. School, Dept. of Anesthesiology, New York City 21. *Professor of Surgery (Anesthesiology).* (**3**, 1956)

Ascham, Leah, Ph.D. Kansas State College, Manhattan. *Prof. Emeritus in School of Home Economics.* (**5**, 1935)

Asenjo, Conrado F., Ph.D. Univ. of Puerto Rico Med. School, San Juan 22. *Prof. and Head, Dept. of Biochemistry and Nutrition.* (**2**, 1944; **5**, 1951)

Ashby, Winifred M., Ph.D. 305 10th St., N.E., Washington 2, D. C. (**6**, 1923)

Ashley, Charles Allen, M.D. Mary Imogene Bassett Hosp., Cooperstown, N. Y. *Assoc. Pathologist; Instr. in Pathology, Columbia Univ.* (**4**, 1956)

Ashman, Richard, Ph.D. 5902 Marshall Foch St., New Orleans, La. *Prof. Emeritus of Physiology, Louisiana State Univ.* (**1R**, 1925)

Ashmore, James, Ph.D. Harvard Med. School, Dept. of Biological Chemistry, Boston 15, Mass. *Asst. Prof.* (**2**, 1956)

Ashwell, G. Gilbert, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, PHS.* (**2**, 1956)

Astwood, Edwin Bennett, M.D., Ph.D. New England Center Hospital, Boston 11, Mass. *Prof. of Medicine, Tufts Univ.* (**1**, 1939)

Atkin, Lawrence, Ph.D. The Fleischmann Labs., Standard Brands, Inc., Betts Ave., Stamford, Conn. *Asst. Dir. of Research.* (**2**, 1946; **5**, 1946)

Atkinson, Daniel E., Ph.D. Univ. of California, Dept. of Chemistry, Los Angeles 24. *Assoc. Prof.* (**2**, 1957)

Aub, Joseph C., M.D. Massachusetts General Hospital, Fruit St., Boston 14. *Emeritus Prof. of Research Medicine, Harvard Med. School.* (**1R**, 1919; **5**, 1933)

Auerbach, Stewart H. Baroness Erlanger Hosp., Chattanooga, Tenn. (**4**, 1953)

Austin, George M., M.D. Univ. of Oregon Med.

School, Portland. *Asst. Prof. of Neurosurgery.* (1, 1954)

Aviado, Domingo M., Jr., M.D. Univ. of Pennsylvania Med. School, Dept. of Pharmacology, Philadelphia 4. *Asst. Prof. Pharmacology.* (1, 1951; 3, 1950)

Awapara, Jorge, Ph.D. The Rice Inst., Houston, Tex. *Assoc. Prof. of Biochemistry.* (2, 1951)

Axelrod, Abe E., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Biochemistry, 3941 O'Hara St., Pittsburgh, Pa. *Professor.* (2, 1950; 5, 1949; 6, 1956)

Axelrod, Bernard, Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Assoc. Prof.* (2, 1948)

Axelrod, Julius, Ph.D. Natl. Inst. of Mental Health, Lab. of Clin. Science, NIH, Bethesda 14, Md. *Chief, Sec. on Pharmacology; Sr. Pharmacologist.* (3, 1953)

Bacchus, Habeeb, Ph.D., M.D. George Washington Univ., School of Medicine, Dept. of Physiology, Washington, D. C. *Asst. Research Prof.* (1, 1952)

Bach, L. M. N., Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Prof. of Physiology.* (1, 1948)

Bacher, James E., Ph.D. 3759 Woodruff Ave., Oakland 2, Calif. (2, 1953)

Bachman, Carl, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St., Philadelphia 4. *Prof. of Obstetrics and Gynecology.* (2, 1941)

Bachmann, George, M.D. 1088 Lullwater Rd., N.E., Atlanta 7, Ga. *Prof. Emeritus of Physiology, Emory Univ. School of Med.* (1R, 1912)

Bachrach, William H., M.D., Ph.D. Univ. of Southern California School of Medicine, Dept. of Physiology, Los Angeles 7. *Visiting Assoc. Prof. of Physiology.* (1, 1949)

Baeder, David H., Ph.D. Wyeth Inst. for Med. Research, Pharmacology Sec,. Philadelphia 1, Pa. *Sr. Research Pharmacologist.* (3, 1956)

Baer, Erich, Ph.D. Banting Inst., Banting and Best Dept. of Med. Research, 100 College St., Toronto, Ont., Canada. *Professor.* (2, 1942)

Baer, Harold, Ph.D. Tulane Univ. School of Medicine, Dept. of Microbiology, New Orleans, La. *Assoc. Prof.* (6, 1955)

Baernstein, Harry D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Biochemist.* (2, 1934)

Baetjer, Anna M., D.Sc. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Environmental Medicine.* (1, 1929)

Baez, Silvio, M.D. New York Univ.-Bellevue Med. Ctr., New York City 16. *Asst. Prof.* (1, 1950)

Baggett, Billy, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Pharmacology, Chapel Hill. *Asst. Prof.* (2, 1957)

Bahn, Robert C., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant, Section Pathologic Anatomy.* (1, 1955)

Bahrs, Alice M., Ph.D. M.D. 3010 Johnson St., Corvallis, Ore. (1, 1933)

Bailey, Cameron Vernon, C.M., M.D. Rt. 2, West St., Newtown, Conn. (2R, 1920; 5R, 1933)

Bailey, Orville T., M.D. Larue D. Carter Mem. Hospital, 1315 W. 10th St., Indianapolis 7, Ind. *Prof. of Neuropathology, Indiana Univ. Med. School.* (4, 1939)

Bailey, Percival, M.D., Ph.D. Univ. of Illinois College of Medicine, 912 S. Wood St., Chicago 12, Ill. *Prof. of Neurology.* (1, 1941)

Bain, James A., Ph.D. Emory Univ. School of Medicine, Dept. of Pharmacology, Div. of Basic Health Sciences, Emory University, Ga. *Prof. and Chairman of Dept.* (3, 1951)

Baitsell, George Alfred, Ph.D. Yale Univ., Osborn Zoological Lab., Yale Sta., New Haven, Conn. *Emeritus Colgate Prof. of Biology.* (1R, 1915)

Baker, A. B., M.D. Univ. of Minnesota Hospital, Minneapolis. *Dir. and Prof. of Neurology and Neuropathology.* (4, 1940)

Baker, Carl G., M.D. Natl. Insts. of Health, Office of the Director, Bethesda 14, Md. *Sr. Surgeon, USPHS.* (2, 1955)

Baker, Edgar E., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Microbiology.* (6, 1950)

Baker, James A., D.V.M., Ph.D. Cornell Univ., New York State Veterinary College, Ithaca. *Dir., Veterinary Virus Research.* (4, 1947)

Baker, Nome, Ph.D. VA Center, Radioisotope Service, Los Angeles 25, Calif. *Prin. Scientist; Asst. Clin. Prof., Univ. of California Med. Ctr.* (2, 1957)

Baker, Roger D., M.D. VA Hosp., Durham, N. C. *Chief, Lab. Service; Prof. of Pathology, Duke Univ. School of Medicine.* (4, 1939)

Baker, Walter W., Ph.D. Jefferson Med. College, Dept. of Pharmacology, Philadelphia, Pa. *Asst. Prof.* (3, 1955)

Baldes, Edward J., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Biophysics, Mayo Fndn., Grad. School, Univ. of Minnesota; Chairman, Sec. on Biophysics & Biophysical Research, Mayo Clinic.* (1, 1933)

Baldwin, Robert L., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Asst. Prof.* (2, 1957)

Bale, William F., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Radiation Biology.* (1, 1943)

Balis, M. Earl, Ph.D. Sloan-Kettering Inst., 444

E. 68th St., New York City 21. *Assoc. Member, Asst. Prof. of Biochemistry, Cornell Univ. Med. College.* (2, 1953)

Ball, Eric G., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Prof. of Biological Chemistry.* (2, 1934)

Ball, Howard A., M.D. 233 A St., San Diego 1, Calif. *Pathologist.* (4, 1947)

Ballou, Clinton E., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley. *Assoc. Prof.* (2, 1956)

Balls, Arnold Kent, Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Professor.* (2, 1932)

Bancroft, Richard W., Ph.D. USAF School of Aviation Medicine, Dept. of Physiology-Biophysics, Randolph Field, Texas. *Physiologist.* (1, 1955)

Bandurski, Robert S., Ph.D. Michigan State Univ., Dept. of Botany, East Lansing. *Assoc. Prof.* (2, 1954)

Bang, Frederik B., M.D. Johns Hopkins Univ. School of Hygiene and Public Health, Baltimore, Md. *Prof. of Pathobiology; Assoc. Prof. of Medicine.* (4, 1947; 6, 1953)

Barclay, Ralph K., Ph.D. Sloan-Kettering Inst., New York City 21. *Associate.* (2, 1955)

Bard, Philip, Ph.D., Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Prof. and Dir. of Dept. of Physiology.* (1, 1929)

Barger, A. Clifford, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Assoc. Prof.* (1, 1950)

Barker, H. A., Ph.D. Univ. of California, 337 Biochemistry-Virus Lab., Berkeley 4. *Prof. of Microbial Biochemistry.* (2, 1946)

Barker, Harold G., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Clin. Surgery.* (1, 1954)

Barker, S. B., Ph.D. Univ. of Alabama, Birmingham 3. *Prof. of Pharmacology.* (1, 1938; 3, 1954)

Barlow, O. W., M.D., Ph.D. R.F.D. 3, Warwick Rd., Winchester, N. H. (3, 1944)

Barnes, B. O., M.D., Ph.D. 1160 S. Colorado Blvd., Denver 22, Colo. (1, 1932)

Barnes, Frederick W., Jr., M.D., Ph.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Medicine and of Physiological Chemistry, Johns Hopkins Univ. School of Medicine.* (2, 1953)

Barnes, LaVerne A., Ph.D. Office of Naval Research, Microbiology Branch, Navy Dept., Washington 25, D.C. *Capt. MSC, USN.* (6, 1931)

Barnes, Richard Henry, Ph.D. Cornell Univ. Graduate School of Nutrition, Ithaca, N. Y. *Prof. and Dean.* (2, 1941; 5, 1944)

Barnes, Thomas C., D.Sc. Hahnemann Med. College and Hosp. of Philadelphia, Philadelphia 2, Pa. *Assoc. Prof. of Pharmacology; Electroencephalographer of Hahnemann Hospital.* (1, 1942; 3, 1948)

Barnett, Henry L., M.D. Albert Einstein College of Medicine, Dept. of Pediatrics, New York City 61. *Prof. and Chairman of Dept.* (1, 1952)

Barnum, Cyrus P., Jr., Ph.D. Univ. of Minnesota, 212 Millard Hall, Minneapolis 14. *Prof. of Physiological Chemistry.* (2, 1946)

Barott, Herbert G., E.E. 1307 Noyes Dr., Silver Spring, Md. (5R, 1938)

Barrett, Harold W., Ph.D. Univ. of Kansas School of Medicine, Dept. of Biochemistry, Lawrence. *Assoc. Prof.* (2, 1956)

Barron, Donald H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. of Physiology.* (1, 1943)

Barry, Guy T., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Associate.* (2, 1957)

Bartlett, Grant R., Ph.D. Scripps Clinic and Research Fndn., La Jolla, Calif. *Research Assoc.* (2, 1951)

Bartlett, Paul D., Ph.D. Edsel B. Ford Inst. for Med. Research, Henry Ford Hospital, Detroit 2, Mich. *Head, Bio-Organic Div., Biochemistry Dept.* (2, 1950)

Bartlett, Roscoe G., Jr., Ph.D. Natl. Inst. of Arthritis & Metabolic Diseases, NIH, Bethesda 14, Md. *Physiologist.* (1, 1956)

Bartley, S. Howard, Ph.D. 348 Cowley, East Lansing, Mich. *Prof. of Psychology, Michigan State Univ.* (1, 1935)

Basinski, Daniel H., Ph.D. Dept. of Laboratories, Henry Ford Hospital, Detroit 2, Michigan. *Assoc. Chemist.* (2, 1953)

Bass, Allan D., M.D. Vanderbilt Univ., School of Medicine, Nashville, Tenn. *Prof. of Pharmacology; Head of Department.* (3, 1944)

Bass, David E., Ph.D. QM Research and Development Ctr., Environmental Protection Div., Natick, Mass. *Chief, Physiology Branch; Assoc. Research Prof. of Physiology, Boston Univ. School of Medicine.* (1, 1955)

Bass, William B., Ph.D. The Upjohn Co., Pharmacology Research Dept., Kalamazoo, Mich. *Research Pharmacologist.* (3, 1955)

Batchelder, Esther L., Ph.D. 8 Devon Rd., Silver Spring, Md. *Dir., Clothing and Housing Research Div., USDA.* (5, 1933)

Bateman, John B., Ph.D. Fort Detrick, Frederick, Md. *Chief, Biophysics Branch.* (1, 1945)

Bates, Robert W., Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Hormone Chemist.* (2, 1936)

Batson, Herbert C., Ph.D. Illinois Dept. of Public Health, Div. of Labs., 1800 W. Fillmore St., Chicago 12. *Prof. of Biostatistics, Univ. of Ill. College of Medicine, Dept. of Public Health.* (6, 1949)

Batterman, Robert C., M.D. New York Med. College, Flower-Fifth Ave. Hosps., 1 E. 105th St., New York City. *Assoc. Prof. of Medicine and Assoc. Prof. of Pharmacology and Physiology.* (3, 1941)

Battersby, William Stanley, Ph.D. Mt. Sinai Hosp., Dept. of Neurology, New York City 29. *Research Assoc. in Neurology.* (1, 1957)

Bauer, J. H., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 20. (4, 1935)

Bauer, Robert O., M.D. 666 Elm St., Buffalo 3, N. Y. *Assoc. Research Anesthesiologist, Roswell Park Memorial Inst.* (3, 1955)

Bauer, Walter, M.D. Massachusetts General Hospital, Boston. *Chief, Med. Services, Mass. Gen. Hospital; Jackson Prof. of Clin. Medicine, Harvard Med. School.* (1, 1929)

Bauernfeind, J. C., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Chief of Applied Nutrition.* (5, 1947)

Baumann, Carl A., Ph.D. Univ. of Wisconsin, Biochemistry Dept., Madison. *Prof. of Biochemistry.* (2, 1938; 5, 1938)

Baumann, Emil J., Ph.D. 7 Church Lane, Scarsdale, N. Y. (2R, 1922)

Baumberger, J. Percy, Sc.D. Physiology Dept., Stanford Univ., Stanford, Calif. *Prof. of Physiology.* (1, 1921)

Bavetta, Lucien A., Ph.D. Univ. of Southern California School of Dentistry, Los Angeles. *Prof. of Biochemistry and Nutrition.* (5, 1956)

Baxter, James H., M.D. Natl. Heart Inst., Lab. of Metabolism, NIH, Bethesda 14, Md. (3, 1948)

Bayne-Jones, Stanhope, M.D. 3227 Reservoir Rd., N.W., Washington 7, D. C. (4R, 1927; 6R, 1917)

Beach, Eliot F., Ph.D. Metropolitan Life Insurance Co., 1 Madison Ave., New York City 10. *Dir., Biochemical Lab.* (2, 1941; 5, 1942)

Beadle, Buell W., Ph.D. Midwest Research Inst., 425 Volken Blvd., Kansas City 10, Mo. *Mgr., Chemistry Div.* (2, 1947)

Beamer, Parker R., M.D., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Pathology.* (4, 1955)

Bean, John W., Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (1, 1932)

Beard, Howard H., Ph.D. Harris Cancer Research Clinic, Sherman Oaks, Calif. *Clin. Biochemist.* (2, 1928)

Beard, Joseph W., M.D. Duke Hospital, Durham, N. C. *Prof. of Surgery; Assoc. Prof. of Virology.* (4, 1938; 6, 1940)

Beaton, John R., Ph.D. Defence Research Board, Med. Sec., Ottawa, Canada. *Scientific Staff Officer.* (2, 1955)

Beatty, Clarissa H., Ph.D. Univ. of Oregon Med. School, Portland. *Asst. Prof.* (1, 1949)

Beazell, J. M., Ph.D., M.D. 1027 So. Tejon, Colorado Springs, Colo. (1, 1939)

Beck, Claude S., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Cardiovascular Surgery, Western Reserve Univ.; Assoc. Surgeon, Lakeside Hospital.* (4, 1930)

Beck, Ivan Thomas, C.E.M., M.D., D.I.M. St. Mary's Hosp. and Royal Victoria Hosp., Dept. of Medicine, Sub-dept. of Gastroenterology, Montreal, Canada. (3, 1951)

Beck, Lyle V., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Physiology and Pharmacology, Pittsburgh 13, Pa. *Assoc. Prof.* (1, 1941; 3, 1956)

Beck, William S., M.D. Massachusetts General Hosp., Boston 14. *Asst. Prof. of Medicine, Harvard Med. School.* (2, 1957)

Becker, D. E., Ph.D. Univ. of Illinois, Dept. of Animal Science, Urbana. *Assoc. Prof.* (5, 1956)

Becker, Elery R., D.Sc. Iowa State College, Dept. of Zoology and Entomology, Ames. *Professor.* (6, 1951)

Becker, Elmer L., Ph.D., M.D. Walter Reed Army Inst. of Research, Immunology Div., Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Immunochemistry.* (6, 1952)

Becker, E. Lovell, M.D. New York Hosp.-Cornell Med. Ctr., 525 E. 68th St., New York City 21. *Asst. Prof. of Medicine.* (1, 1956)

Becker, R. Frederick, Ph.D. Duke Univ. Med. School, Dept. of Anatomy, Durham, N. C. *Assoc. Prof.* (1, 1949)

Becker, Robert R., Ph.D. Columbia Univ., New York City 27. *Asst. Prof. of Chemistry.* (2, 1957)

Beckfield, William J., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Asst. Prof. of Pathology.* (4, 1957)

Beckman, Edward Louis, M.D. Inst. of Aviation Medicine, Royal Aircraft Establishment, Farnborough, Hants, England. *Medical Officer.* (1, 1955)

Beckman, Harry, M.D. Marquette Univ. School of Medicine, Milwaukee 3, Wis. *Dir. of Dept. of Pharmacology.* (3, 1937)

Beecher, Henry K., M.D. Massachusetts General Hospital, Boston 14. *Anesthetist-in-Chief; Dorr Prof. of Research in Anesthesia, Harvard Univ.* (1, 1951; 3, 1940)

Beers, Roland F., Jr., M.D., Ph.D. Robert W. Johnson Lab., Children's Hosp. School, Inc., Baltimore 11, Md. *Dir. of Research.* (2, 1957)

Beerstecher, Ernest, Jr., Ph.D. Univ. of Texas, School of Dentistry, P. O. Box 20068, Houston 25. *Prof. of Biochemistry.* (2, 1950)

Beeson, W. M., Ph.D. Purdue Univ., Dept. of Animal Husbandry, Lafayette, Ind. *Professor.* (5, 1952)

Beevers, Harry, Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. *Assoc. Prof. of Plant Physiology.* (2, 1956)

Begg, R. W., M.D., D. Phil. Univ. of Saskat-

chewan, Dept. of Cancer Research, Saskatoon, Canada. *Professor* (**2**, 1954)

Beher, William T., Ph.D. Henry Ford Hosp., Detroit 2, Mich. *Research Assoc., Edsel B. Ford Inst. for Med. Research and Wayne Univ.* (**2**, 1955)

Behnke, Albert R., M.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Radiological Med. Dir.* (**1**, 1946)

Behre, Jeanette Allen, Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Asst. Prof.* (**2**, 1925)

Behrens, Otto K., Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis 6, Ind. *Dir., Biochemical Research Div.* (**2**, 1949)

Beidler, Lloyd M., Ph.D. Florida State Univ., Div. of Physiology, Tallahassee. *Prof.* (**1**, 1955)

Beinert, Helmut, Dr. rer. nat. Inst. for Enzyme Research, Univ. of Wisconsin, 1702 University Ave., Madison 5. *Asst. Prof.* (**2**, 1953)

Beiser, Sam M., Ph.D. Columbia Univ. College of Physicians & Surgeons, New York City 32. *Asst. Prof. of Microbiology.* (**6**, 1953)

Belding, David L., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Bacteriology and Exper. Pathology.* (**4**, 1927)

Belding, Harwood S., Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Occupational Health, Pittsburgh 13, Pa. *Prof. of Environmental Physiology.* (**1**, 1945)

Belford, Julius, Ph.D. State Univ. of New York College of Medicine, 450 Clarkson Ave., Brooklyn 3. *Assoc. Prof.* (**3**, 1954)

Belkin, Morris, Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Head, Cellular Pharmacology Sec.* (**3**, 1949)

Bell, E. T., M.D. 101 Jackson Hall, Univ. of Minnesota, Minneapolis. *Prof. Emeritus of Pathology.* (**4**, 1931)

Bell, Paul Hadley, Ph.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Head, Biochemistry Dept.* (**2**, 1957)

Benacerraf, Baruj, M.D. New York Univ. College of Medicine, New York City 16. *Asst. Prof. of Pathology.* (**6**, 1957)

Bencosme, Sergio A., M.D. Queen's Univ., Richardson Lab., Kingston, Ont., Canada. *Assoc. Prof. of Pathology.* (**4**, 1956)

Bender, M. B., M.D. New York Univ. College of Medicine, New York City. *Prof. of Clin. Neurology; Dir., Neurology, Mt. Sinai Hosp.* (**1**, 1947)

Bendich, Aaron, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 E. 68th St., New York City 21. *Assoc. Prof. Biochemistry, Cornell Univ. Med. College.* (**2**, 1950)

Benditt, Earl P., M.D. Univ. of Washington, Seattle 5. *Prof. of Pathology.* (**4**, 1947)

Benenson, Abram S., M.D. Walter Reed Army Inst. of Research, Div. of Immunology, Walter Reed Army Med. Ctr., Washington 12, D. C. *Director.* (**6**, 1956)

Benesch, Reinhold, Ph.D. Marine Biological Lab., Woods Hole, Mass. (**2**, 1952)

Benesch, Ruth E., Ph.D. Marine Biological Lab., Woods Hole, Mass. (**2**, 1957)

Benforado, Joseph M., M.D. Oxford Univ., Dept. of Pharmacology, Oxford, England. *Associate.* (**3**, 1957)

Benham, Olive Ray, B.S. Connecticut State Dept. of Health, Bureau of Labs., Hartford. *Chief Serologist.* (**6**, 1944)

Benirschke, Kurt, M.D. Boston Lying-In Hosp., Boston 15, Mass. *Pathologist; Assoc. in Pathology, Harvard Med. School.* (**4**, 1956)

Benjamin, Fred B., D.M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Asst. Prof. of Physiology.* (**1**, 1955)

Bennett, A. Lawrence, Ph.D., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. and Asst. Chairman, Dept. of Physiology and Pharmacology.* (**1**, 1941)

Bennett, Edward L., Ph.D. Univ. of California, Radiation Lab., Berkeley 4. *Research Chemist.* (**2**, 1955)

Bennett, Granville A., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Pathology and Dean, College of Medicine.* (**4**, 1931)

Bennett, H. Stanley, M.D. Univ. of Washington School of Medicine, Seattle. *Prof. of Anatomy.* (**1**, 1946)

Bennett, Ivan L., Jr., M.D. Johns Hopkins Hosp., 1140 RUI Bldg., Baltimore 5, Md. *Head, Biological Div., Dept. of Medicine.* (**6**, 1954)

Bennett, Leslie L., M.D., Ph.D. Univ. of California, Berkeley 4. *Prof. of Physiology.* (**1**, 1945)

Bennett, Leslie R., M.D. Univ. of California School of Medicine, Los Angeles. *Assoc. Prof. of Radiology.* (**4**, 1956)

Bennett, Mary Adelia, Ph.D. Lankenau Hospital Research Inst., 7701 Burholme St., Fox Chase, Philadelphia 11, Pa. *Research Biochemist.* (**2**, 1941)

Bennett, Warren A., M.D. Thomas D. Lee Hosp., Ogden, Utah. *Dir. of Labs. and Chief of Pathology.* (**4**, 1952)

Benson, Andrew A., Ph.D. Pennsylvania State Univ., Dept. of Agric. and Biological Chemistry, University Park. *Assoc. Prof.* (**2**, 1955)

Benson, Clara C., Ph.D. 160 Dorset St., West, Port Hope, Ontario, Canada. *Prof. Emeritus of Food Chemistry, Univ. of Toronto.* (**2R**, 1906)

Benson, Otis O., Jr., M.D. School of Aviation Medicine, USAF, Randolph AFB, Texas. *Maj. Gen. USAF (MC); Commandant.* (**1**, 1951)

Benson, Wilbur M., Ph.D., M.D. Univ. of

Minnesota Med. School, Dept. of Pharmacology, Minneapolis 14. *Hill Fndn. Prof. of Pharmacology.* (3, 1954)

Bentley, Ronald, Ph.D. Univ. of Pittsburgh Grad. School of Public Health, Pittsburgh 13, Pa. *Assoc. Prof. of Biochemistry.* (2, 1954)

Benton, Joseph G., Ph.D., M.D. New York Univ. College of Medicine, New York City 16. *Assoc. Prof. of Physical Medicine and Rehabilitation.* (3, 1949)

Benzinger, Theodor, M.D., D.Sc. Naval Med. Research Inst., Bethesda 14, Md. *Head, Bio-Energetics Div.* (1, 1950)

Berg, Benjamin N., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Pathology.* (4, 1928)

Berg, Clarence P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Prof. of Biochemistry.* (2, 1933; 5, 1936)

Berg, Paul, Ph.D. Washington Univ. School of Medicine, Dept. of Microbiology, St. Louis 10, Mo. *Assoc. Prof.* (2, 1955)

Berge, Trygve O., Ph.D. U. S. Army Med. Unit, Fort Detrick, Md. *Chief, Microbiology Branch.* (6, 1954)

Bergeim, Olaf, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biochemistry.* (1R, 1916; 2R, 1914)

Bergen, John R., Ph.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. *Staff Member.* (1, 1955)

Berger, Eugene Y., M.D. 3640 Johnson Ave., New York 63, N. Y. *Asst. Prof. of Medicine, N. Y. U. College of Medicine.* (1, 1953)

Berger, F. M., M.D. 227 Prospect Ave., Princeton, N. J. *Dir., Wallace Labs., New Brunswick, N. J.* (3, 1949)

Bergeron, Georges A., M.D. Laval Univ. Med. School, Dept. of Physiology, Quebec, Canada. *Prof. of Physiology.* (1, 1955)

Bergmann, Werner, Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Prof. of Chemistry.* (2, 1934)

Berlin, Nathaniel I., M.D., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chief, Metabolic Service.* (1, 1954)

Berliner, Robert W., M.D. Natl. Heart Inst., NIH, Bethesda, Md. *Assoc. Dir. in charge of Research.* (1, 1950)

Berman, David T., Ph.D. Univ. of Wisconsin, Veterinary Science Dept., Madison 6. *Professor.* (6, 1955)

Bernard, Richard, Ph.D. Laval Univ., Dept. of Biology, Blvd. de l'Entente, Quebec, Canada. *Prof. of Animal Physiology.* (1, 1947)

Berne, Robert M., M.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Assoc. Prof.* (1, 1951)

Bernfeld, Peter, Ph.D. Tufts Univ. School of Medicine, Boston 11, Mass. *Assoc. Prof. of Biochemistry and Nutrition.* (2, 1952)

Bernheim, Frederick, Ph.D. Box 3109, Duke Univ. Med. School, Durham, N. C. *Prof. of Pharmacology.* (2, 1933; 3, 1935)

Bernheimer, Alan Weyl, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Microbiology.* (6, 1951)

Bernstein, I. A., Ph.D. R6649 Kresge Med. Research Bldg., University Hosp., Ann Arbor, Mich. *Asst. Prof. Biological Chemistry, Univ. of Michigan.* (2, 1956)

Bernthal, Theodore G., M.D. Med. College of South Carolina, Dept. of Physiology, Charleston 16. *Prof. and Head of Dept.* (1, 1932)

Berry, George Packer, M.D. Harvard Med. School, Boston 15, Mass. *Dean and Prof. of Bacteriology.* (6, 1934)

Berryman, George H., Ph.D., M.D. Abbott Labs., No. Chicago, Ill. *Head of Clin. Investigation; Clin. Asst. Prof. of Medicine, Univ. of Illinois.* (1, 1949)

Berson, Solomon A., M.D. VA Hosp., New York City 68. *Chief, Radioisotope Service.* (1, 1957)

Bessey, Otto A., Ph.D. Environmental Protection Research Div., QM Research & Engineering Center, USA, Natick, Mass. *Assoc. Chief for Research.* (2, 1938; 5, 1943)

Bessman, Samuel P., M.D. University Hosp., Baltimore, Md. *Assoc. Prof. of Pediatrics, Univ. of Maryland.* (2, 1954)

Best, Charles H., M.D., D.Sc. Univ. of Toronto, Toronto, Ontario, Canada. *Dir. of Banting and Best Dept. of Med. Research and Dept. of Physiology.* (1, 1923; 2, 1923)

Bethell, Frank H., M.D. 409 Lenawee Drive, Ann Arbor, Mich. *Prof. of Internal Medicine and Dir. of the Thomas Henry Simpson Memorial Inst.* (4, 1936)

Bethke, Roland M., Ph.D. Ralston Purina Co., 835 S. 8th St., St. Louis 2, Mo. *Vice Pres. and Dir. of Research.* (2, 1928; 5, 1933)

Beutner, R. H., Ph.D., M.D. Des Moines Still College of Osteopathy and Surgery, Med. Research Lab., Des Moines, Iowa. *Assoc. Prof., Pharmacology.* (1R, 1924; 3, 1924)

Bevans, Margaret. Columbia Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Assoc. Prof. of Pathology, Columbia Univ.* (4, 1952)

Beveridge, J. M. R., Ph.D., M.D. Queen's Univ., Kingston, Canada. *Craine Prof. and Head, Dept. of Biochemistry.* (5, 1957)

Beyer, Karl H., Ph.D., M.D. Merck Inst. for Therapeutic Research, West Point, Pa. *Director.* (1, 1942; 3, 1944)

Bickford, Reginald G., M.D. Mayo Clinic, Section on Physiology, Rochester, Minn. *Head of Lab. of Neurophysiology and Electroencephalography; Prof. of Physiology, Univ. of Minnesota.* (1, 1949)

Biddulph, Clyde, Ph.D. Utah State Univ., Logan. *Prof. of Physiology.* (1, 1952)

Bier, Milan, Ph.D. 2440 Sedgwick Ave., New York City 68. *Asst. Prof., Fordham Univ.* (2, 1956)

Bier, Otto, M.D. Escola Paulista de Medicina, Caixa Postal 7144, São Paulo, Brazil. *Head.* (6, 1947)

Bieri, John G., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Nutrition and Endocrinology, NIH, Bethesda 14, Md. *Biochemist.* (5, 1954)

Bierman, Howard R., M.D. City of Hope Med. Ctr., Duarte, Calif. *Med. and Scientific Dir.* (3, 1950)

Bieter, Raymond N., M.D., Ph.D. Univ. of Minnesota, Minneapolis 14. *Prof. and Head of Dept. of Pharmacology.* (3, 1930)

Bills, Charles E., Ph.D. 6403 Murray Hill Rd., Baltimore 12, Md. *Consultant.* (2, 1928; 5, 1935)

Bing, Franklin C., Ph.D. 30 N. La Salle St., Chicago 2, Ill. *Consulting Chemist.* (2, 1931; 5, 1934)

Bing, Richard J., M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine.* (1, 1942)

Binkley, Francis, Ph.D. Emory Univ., Dept. of Biochemistry, Emory University, Ga. *Professor.* (2, 1947)

Binkley, Stephen Bennett, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Biochemistry.* (2, 1941)

Bird, Francis H., Ph.D. Eastern States Farmers' Exchange, Inc., Feed Research Ctr., Rockville, RFD 3, Conn. *Assoc. in Feed Research.* (5, 1951)

Bird, Herbert R., Ph.D. Univ. of Wisconsin College of Agriculture, Dept. of Poultry Husbandry, Madison 6. *Professor.* (5, 1947)

Bird, Orson D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Lab. Dir. in Nutritional Research.* (2, 1947)

Bird, Robert M., M.D. Univ. Hospital, Dept. of Medicine, Oklahoma City, Okla. *Assoc. Prof. of Medicine and of Physiology.* (1, 1950)

Birnbaum, Sanford M., Ph.D. Natl. Cancer Inst., Lab. of Biochemistry, Bethesda 14, Md. *Scientist.* (2, 1953)

Birnie, James H., Ph.D. Morehouse College, Dept. of Biology, Atlanta, Ga. *Prof. and Chairman of Dept.* (1, 1952)

Birren, James E., Ph.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Chief, Sec. on Aging.* (1, 1950)

Bisbey, Bertha, Ph.D. 1402 Bass Ave., Columbia, Mo. *Prof. of Nutrition, Univ. of Missouri.* (5R, 1933)

Bischoff, Fritz E., Ph.D. Santa Barbara Cottage Hospital, Santa Barbara, Calif. *Dir. of Research.* (2, 1928; 5, 1933)

Bishop, George H., Ph.D. Washington Univ. Med. School, Euclid and Kingshighway, St. Louis, Mo. *Prof. Emeritus of Neurophysiology.* (1, 1923)

Bishop, Jack Garland, Ph.D. Baylor Univ. College of Dentistry, Dept. of Physiology, Dallas 10, Texas. *Assoc. Prof.; Prof. and Chairman, Graduate Research Inst. of Baylor Univ.* (1, 1957)

Biskind, Gerson R., M.D. 450 Sutter St., San Francisco, Calif. *Chief Pathologist, Mt. Zion Hosp.; Assoc. Clin. Prof. of Pathology, Univ. of California Med. School.* (4, 1944)

Black, Alex, Ph.D. Pennsylvania State Univ., Agric. Exper. Sta., University Park. *Asst. Dir.* (5, 1947)

Black, Arthur L., Ph.D. Univ. of California School of Veterinary Medicine, Davis. *Assoc. Prof., Biochemistry; Assoc. Biochemist, Exper. Station.* (2, 1956)

Black, Edgar C., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B. C., Canada. *Assoc. Prof. of Physiology.* (1, 1943)

Black, Francis L., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Research Assoc. in Preventive Medicine; Lecturer in Microbiology.* (6, 1957)

Black, Simon, Ph.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chemist.* (2, 1948)

Blackmore, William P., Ph.D. Univ. of Texas, Southwestern Med. School, Dept. of Pharmacology, Dallas 19. *Assoc. Prof.* (3, 1957)

Blair, Edgar A., Ph.D. Army Med. Service School, Fort Sam Houston, Tex. *Col.* (1, 1936)

Blair, Henry A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Dir. of Dept. of Radiation Biology; Dir., Atomic Energy Project.* (1, 1934)

Blair, Joseph Reese, M.D. Army Med. Research Lab., Ft. Knox, Ky. *Lt. Col.* (1, 1952)

Blair, Murray R., Jr., Ph.D. Tufts Univ. Med. School, Dept. of Pharmacology, Boston, Mass. *Asst. Prof.* (3, 1957)

Blake, William D., M.D. Univ. of Oregon Med. School, Dept. of Physiology, Portland 1. *Assoc. Prof. of Physiology.* (1, 1950)

Blakemore, William Stephen, M.D. University of Pennsylvania, School of Medicine and Grad. School of Medicine, Philadelphia, Pa. *Asst. Prof. of Surgery; J. William White Asst. Prof. of Surgical Research.* (1, 1957)

Blanchard, Kenneth C., Ph.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Assoc. Prof. of Pharmacology.* (3, 1954)

Blankenhorn, David H., M.D. Cincinnati General

Hosp., Cincinnati, Ohio. *Research Fellow, Dept. Internal Medicine, Univ. of Cincinnati.* (**4,** 1957)

Blatherwick, Norman R., Ph.D. P.O. Box 5415, Daytona Beach, Fla. (**1R,** 1915; **2R,** 1915; **5R,** 1934)

Blau, Nathan F., Ph.D. VA Center, 5500 E. Kellogg, Wichita 8, Kan. *Research Biochemist, VA Hosp.* (**2,** 1928)

Blish, Morris J., Ph.D. 4810 N. 31st St., Phoenix, Ariz. (**2R,** 1944)

Bliss, Chester Ittner, Ph.D. Connecticut Agric. Exper. Station, P. O. Box 1106, New Haven. *Biometrician; Lecturer in Biometry, Yale Univ.* (**3,** 1944)

Bliss, Eleanor A., Sc.D. Bryn Mawr College, Dept. of Biology, Bryn Mawr, Pa. *Prof. of Biology; Dean of Grad. School.* (**6,** 1931)

Blivaiss, Ben B., Ph.D. Chicago Med. School, Chicago 12, Ill. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1955)

Bloch, Edward H., M.D. Ph.D. Western Reserve Univ. School of Medicine, Dept. of Anatomy, Cleveland 6, Ohio. *Assoc. Prof.* (**6,** 1956)

Bloch, Hubert, M.D. Univ. of Pittsburgh Medical School, Dept. of Microbiology, Pittsburgh 13, Pa. *Prof. and Chairman.* (**6,** 1954)

Bloch, Konrad, Ph.D. Harvard Univ., Dept. of Chemistry, Cambridge 38, Mass. *Prof. of Biochemistry.* (**2,** 1944)

Block, Matthew H., Ph.D., M.D. Univ. of Colorado Med. Center, Denver. *Assoc. Prof. of Medicine.* (**4,** 1953)

Block, Richard J., Ph.D. 15 Cooper Rd., Scarsdale, N. Y. *Professorial Lecturer, Dept. of Biochemistry, New York Med. College, Flower and Fifth Ave. Hospitals; Consultant, Boyce-Thompson Inst., Yonkers.* (**2,** 1934; **5,** 1933)

Block, Walter D., Ph.D. Univ. of Michigan Med. School, Kresge Med. Research Bldg., Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1942)

Blood, Frank R., Ph.D. Vanderbilt Univ., Dept. of Biochemistry, Nashville 4, Tenn. *Professor.* (**1,** 1950)

Bloodworth, J. M. B., Jr., M.D. Ohio State Univ. College of Medicine, Dept. of Pathology, Columbus 10. *Assoc. Prof.* (**4,** 1956)

Bloom, Ben, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Physiologist.* (**2,** 1955)

Bloom, William, M.D. 5520 So. Shore Dr., Chicago 37, Ill. *Prof. of Anatomy, Univ. of Chicago.* (**4,** 1930)

Bloomfield, A. L., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Prof. Emeritus of Medicine.* (**3,** 1927; **4,** 1927)

Bloor, W. R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. Emeritus of Biochemistry.* (**1R,** 1915; **2R,** 1910)

Blum, Jacob J., Ph.D. Mental Health Research Inst. and Dept. of Biochemistry, Univ. of Michigan, Ann Arbor. (**1,** 1955)

Blumberg, Harold, Sc.D. Endo Labs., Inc., 84–40 101st St., Richmond Hill 18, N. Y. *Dir., Biological Labs.* (**3,** 1954; **5,** 1942)

Blumenstock, Julius, M.D. Veterans Admin. Hospital, Sheridan, Wyo. (**1,** 1925)

Blumenthal, Herman T., M.D., Ph.D. The Jewish Hospital, 216 S. Kingshighway, St. Louis 10, Mo. *Dir. Inst. of Exptl. Pathology.* (**4,** 1951)

Blunt, J. Wallace, Jr., M.D. St. Luke's Hosp., Cleveland 4, Ohio. *Assoc. Dir. of Surgical Research.* (**4,** 1957)

Bly, Chauncey G., M.D., Ph.D. Highland Hosp., Rochester 20, N. Y. *Pathologist; Assoc. Clin. Prof. of Pathology, Univ. of Rochester.* (**4,** 1951)

Bobb, J. Richard R., M.D. Bowman Gray School of Medicine, Wake Forest College, Winston-Salem, N. C. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1949)

Bock, Joseph C., Ph.D. 2324 N. 46th St., Milwaukee 10, Wis. *Prof. Emeritus of Biochemistry, Marquette Univ. Med. School; Biochemist, Milwaukee County Hospital.* (**2R,** 1916)

Bock, Robert M., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Assoc. Prof.* (**2,** 1957)

Bodansky, Aaron, Ph.D. 7002 58th Ave., N.E., Seattle 15, Wash. (**2R,** 1926)

Bodansky, Oscar, Ph.D., M.D. 444 E. 68th St., New York City 21. *Chief, Dept. Biochemistry, Memorial Hosp.; Chief, Div. Metabolism and Enzyme Studies, Sloan-Kettering Inst.* (**2,** 1937; **3,** 1942)

Bodian, David, Ph.D., M.D. Johns Hopkins Univ., 710 N. Washington St., Baltimore 5, Md. *Prof. of Anatomy and Dir. of Dept.* (**6,** 1949)

Boell, Edgar J., Ph.D. Yale Univ., Gibbs Research, New Haven, Conn. *Ross G. Harrison Prof. of Exptl. Zoology.* (**1,** 1942)

Boettiger, Edward G., Ph.D. Univ. of Connecticut, Box U-42, Storrs. *Assoc. Prof. of Zoology.* (**1,** 1950)

Bogdanski, Donald F., Ph.D. 4506 Harrison St., N.W., Washington 15, D. C. *Sr. Asst. Scientist, Natl. Heart Inst., NIH.* (**3,** 1957)

Boger, William P., M.D., Norristown State Hosp., Norristown, Pa. *Dir. of Research.* (**3,** 1948)

Bogert, L. Jean, Ph.D. Hotel Claremont, Berkeley, Calif. (**2R,** 1917)

Bohr, David F., M.D. Univ. of Michigan, Physiology Lab., Ann Arbor. *Professor.* (**1,** 1949)

Bohr, Vernon Clarence, Ph.D. College of Med. Evangelists, Loma Linda, Calif. *Asst. Prof. of Physiology.* (**1,** 1957)

Bolliger, Adolph, D.Sc. Univ. of Sydney, Gordon Craig Research Lab., Sydney, Australia. *Dir. of Research.* (**2,** 1928)

Bollman, J. L., M.D. Mayo Clinic, Rochester,

Minn. *Prof. of Physiology, Mayo Fndn.* (**4**, 1927)

Bond, Glenn C., Ph.D., M.D. The Upjohn Co., Kalamazoo 99, Mich. *Asst. Dir. of Control.* (**6**, 1939)

Bond, Victor P., M.D. Brookhaven Natl. Lab., Med. Dept., Upton, N. Y. *Physician; Radiobiologist.* (**1**, 1957)

Bondi, Amedeo, Jr., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Bacteriology.* (**6**, 1948)

Bonner, David M., Ph.D. Yale Univ., Microbiology Dept., 310 Cedar St., New Haven, Conn. *Professor.* (**2**, 1948)

Bonner, James, Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biology.* (**2**, 1952)

Bonnycastle, Desmond D., M.D., Ph.D. Seton Hall College of Medicine and Dentistry, Med. Ctr., Jersey City 4, N. J. *Prof. of Pharmacology.* (**3**, 1947)

Bonsnes, Roy W., Ph.D. Cornell Univ. Med. College, Dept. of Biochemistry, 1300 York Ave., New York City 21. *Assoc. Prof.; Chemist, Woman's Clinic, N. Y. Hospital.* (**2**, 1947)

Booher, Lela E., Ph.D. 4858 E. 13th St., Tucson, Ariz. *Consultant.* (**2**, 1933; **5**, 1933)

Booker, Walter M., Ph.D. Univ. of Ghent, Pharmacological Inst., Ghent, Belgium. (**1**, 1948; **3**, 1948)

Boone, Bert R., M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Special Projects Officer.* (**1**, 1951)

Boone, Irene J. U., M.D. Univ. of California, Los Alamos Scientific Lab., P.O. Box 1663, Los Alamos, N. M. *Staff Member, Biomed. Research Group.* (**2**, 1957)

Boor, Alden K., Ph.D. 609½ Cherry St., Lansing, Mich. (**2**, 1931)

Borchers, Raymond, Ph.D. Univ. of Nebraska, Dept. of Biochemistry and Nutrition, Lincoln 3. *Assoc. Prof.* (**5**, 1951)

Bordley, James, III, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Director; Clin. Prof. of Medicine, Columbia Univ.* (**1**, 1938)

Borek, Ernest, Ph.D. College of the City of New York, Convent Ave. and 140th St., New York City. *Assoc. Prof., Dept. of Chemistry.* (**2**, 1947)

Borison, Herbert Leon, Ph.D. Univ. of Utah, College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Assoc. Prof.* (**1**, 1950; **3**, 1952)

Boroff, Daniel A., Ph.D. 5 Morton Pl., White Plains, N. Y. (**6**, 1947)

Borsook, Henry, M.D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biochemistry.* (**2**, 1931)

Boss, Willis R., Ph.D. Dept. of Zoology, Syracuse Univ., Syracuse, N. Y. *Professor.* (**1**, 1954)

Bosshardt, David K., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc. in Nutrition.* (**5**, 1947)

Bostick, Warren L., M.D. Univ. of California Med. School, Dept. of Pathology, San Francisco 22. *Assoc. Prof.; Dir., Clin. Labs.* (**4**, 1949)

Bosworth, Alfred Willson, A.M. R.F.D. 4, Circleville, Ohio. *Consulting Chemist.* (**2R**, 1936; **5R**, 1935)

Botelho, Stella Y., M.D. Grad. School of Medicine, Dept. of Physiology and Pharmacology, Univ. of Pennsylvania, Philadelphia 4. *Assoc. Prof. of Physiology and Pharmacology.* (**1**, 1954)

Bott, Phyllis A., Ph.D. Woman's Med. College of Pennsylvania, Henry Ave. and Abbottsford Rd., Philadelphia. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**1**, 1957; **2**, 1938)

Botts, Dorothy Jean, Ph.D. Naval Med. Research Inst., Div. of Physical Biochemistry, Natl. Naval Med. Center, Bethesda 14, Md. *Physiologist.* (**1**, 1952)

Boucher, Robert V., Ph.D. 303 Frear Labs., Pennsylvania State Univ., University Park. *Prof. of Agricultural and Biological Chemistry.* (**5**, 1945)

Bouman, H. D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physical Medicine.* (**1**, 1943)

Bourdillon, Jaques, M.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Sr. Med. Biochemist.* (**2**, 1956)

Bourne, Wesley, M.D., M.Sc. McGill Univ., Dept. of Anesthesia, Montreal, Que., Canada. *Consultant Anesthetist; Emeritus Prof. of Anesthesia.* (**3**, 1936)

Bourque, Joseph E., M.D., Ph.D. 2700 Western Ave., Park Forest, Ill. *Physician and Surgeon, Private Practice.* (**1**, 1949)

Bourquin, Helen, Ph.D. 1331 N. Tejon St., Colorado Springs, Colo. (**1**, 1925)

Bovarnick, Marianna R., Ph.D. Veterans Administration Hospital, Brooklyn 9, N. Y. *Lecturer, State Univ. of New York College of Medicine, New York City.* (**2**, 1953)

Bowen, William J., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Physical Biology, NIH, Bethesda 14, Md. *Physiologist; Scientific Dir.* (*T*) (**1**, 1948)

Bowman, Donald E., Ph.D. Indiana Univ., School of Medicine, Dept. of Biochemistry and Pharmacology, Indianapolis, Ind. *Prof. of Biochemistry and Acting Chairman.* (**2**, 1944)

Bowman, Katherine L., B.A. Allergy Lab., Jewish Hospital of Brooklyn, Brooklyn 38, N. Y. *Research Assoc. in Allergy.* (**6**, 1946)

Boxer, George E., Ph.D. 513 Fairmont Ave., Westfield, N. J. *Dir. of Enzyme Research, Merck Inst. for Therapeutic Research.* (**2**, 1946)

Boyarsky, Louis L., Ph.D. Univ. of Kentucky, Dept. of Anatomy and Physiology, Lexington. *Assoc. Prof.* (**1**, 1954)

Boyd, Eldon M., M.D. Queen's Univ., Kingston,

Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Boyd, Linn J., M.D. New York Med. College and Flower & Fifth Ave. Hospitals, 1 E. 105th St., New York City 29. *Prof. of Pharmacology; Dir. of Medicine.* (**3,** 1950)

Boyd, M. John, Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia 2, Pa. *Prof. and Head, Div. of Biol. Chemistry.* (**2,** 1947)

Boyd, T. E., Ph.D. 9 Walworth Ave., Scarsdale, N. Y. *Asst. Dir. of Research, Natl. Fndn. for Infantile Paralysis.* (**1,** 1924)

Boyd, William C., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Professor.* (**6,** 1933)

Boyden, Alan A. Rutgers Univ., New Brunswick, N. J. *Prof. and Chairman of Zoology.* (**6,** 1948)

Boyden, Edward A., Ph.D. Dept. of Anatomy, Univ. of Washington, Seattle 5. *Research Prof.; Emeritus Prof., Univ. of Minnesota.* (**1,** 1929)

Boyer, Paul D., Ph.D. Univ. of Minnesota, Dept. of Physiological Chemistry, Minneapolis 14. *Hill Prof. of Enzymology.* (**2,** 1944)

Boyle, Paul E., D.M.D. Western Reserve Univ. School of Dentistry, Cleveland 6, Ohio. *Dean; Prof. of Dental Medicine.* (**4,** 1939)

Bozicevich, John, M.A. Natl. Insts. of Health, Bethesda, Md. *Sec. Chief, Basic Immunology Lab.* (**6,** 1948)

Bozler, Emil, Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1932)

Bradbury, James T., Sc.D. Dept. of Obstetrics and Gynecology, University Hospital, Iowa City, Iowa. *Assoc. Prof.* (**1,** 1941)

Bradley, Harold C., Ph.D. 2639 Durant Ave., Berkeley, Calif. (**1R,** 1911; **2R,** 1908)

Bradley, Stanley E., M.D. Columbia Univ. College of Physicians and Surgeons, 620 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1947)

Bradley, William B., Ph.D. American Inst. of Baking, 400 E. Ontario St., Chicago 11, Ill. *Scientific Research Dir.* (**1,** 1939)

Bradlow, H. Leon, Ph.D. Sloan-Kettering Inst., 410 E. 68th St., New York City 21. *Associate.* (**2,** 1954)

Brady, Roscoe O., M.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda 14, Md. *Chief, Sec. on Lipid Metabolism.* (**2,** 1955)

Bragdon, Joseph Henry, M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Med. Dir., PHS.* (**4,** 1950)

Branch, E. Arnold G., M.D. Lancaster Hospital, Lancaster, New Brunswick, Canada. *Chief, Lab. Service; Provincial Med. Dir., Red Cross Blood Transfusion Service.* (**4,** 1929)

Brand, Eugene D., M.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Asst. Prof.* (**3,** 1954)

Brandes, W. W., M.D. Southampton Hosp., Southampton, N. Y. (**4,** 1931)

Branham, Sara E., Ph.D., M.D., Natl. Insts. of Health, Bethesda, Md. *Chief, Section on Bacterial Toxins, DBS.* (**6,** 1926)

Branion, Hugh Douglas, Ph.D. Ontario Agricultural College, Guelph, Canada. *Prof. and Head of Dept. of Nutrition.* (**5,** 1933)

Brassfield, Charles R., Ph.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1937)

Bratton, Andrew Calvin, Jr., M.D., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Dir. of Pharmacological Research.* (**3,** 1941)

Brauer, Ralph W., Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Head, Pharmacology Branch.* (**1,** 1957; **3,** 1948)

Braun, Herbert A., Ph.D. Food and Drug Admin., Washington 25, D. C. *Pharmacologist.* (**3,** 1941)

Braunstein, Herbert, M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Asst. Prof. of Pathology.* (**4,** 1957)

Braunwald, Eugene, M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Clin. Assoc., Lab. of Cardiovascular Physiology.* (**1,** 1956)

Brazda, Fred G., Ph.D. Louisiana State Univ. School of Medicine, 1542 Tulane Ave., New Orleans 12. *Prof. of Biochemistry; Head of Dept.* (**2,** 1954)

Brazier, Mary A. B., Ph.D. Massachusetts General Hosp., Boston 14. *Neurophysiologist; Research Assoc. in Neurology, Harvard Med. School; Research Assoc. in Electrical Engineering, Massachusetts Inst. of Technology.* (**1,** 1947)

Brecher, George, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Hematology Service, Clinical Pathology Dept., Clinical Center.* (**4,** 1949)

Brecher, Gerhard A., M.D., Ph.D. Ohio State Univ. College of Medicine, Dept. of Physiology, Columbus 10. *Professor.* (**1,** 1949)

Breedis, Charles, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Pathology.* (**4,** 1948)

Bremer, Frederic, M.D. 115 Blvd. de Waterloo, Brussels, Belgium. *Prof. and Dir. of Dept. of Physiopathology, Univ. of Brussels.* (**1H,** 1950)

Brewer, Carl R., Ph.D. USA Chemical Corps Research & Development Command, Washington 25, D. C. *Chief, Research Div.* (**2,** 1948)

Brewer, John H., Ph.D. Hynson Westcott and Dunning, Baltimore, Md. *Dir. of Biological Research.* (**6,** 1948)

Brewer, Nathan R., Ph.D., D.V.M. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Physiology; Supt. of Animal Qtrs.* (**1,** 1948)

Brewer, Wilma D., Ph.D. Iowa State College, Dept. of Foods and Nutrition, Ames. *Professor.* (**5,** 1951)

Bridge, Edward M., M.D. Univ. of Buffalo School of Medicine, 3435 Main St., Buffalo 14, N. Y. *Prof. of Pharmacology.* (**3,** 1951)

Brieger, Heinrich, M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Prof. of Industrial Medicine.* (**3,** 1954)

Briggs, A. P., M.D. Med. College of Georgia, Augusta. *Prof. Emeritus of Biochemistry.* (**2R,** 1923)

Briggs, David R., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Prof. of Agricultural Biochemistry.* (**2,** 1946)

Briggs, Fred N., Ph.D. Harvard Med. School, Boston, Mass. *Assoc. in Pharmacology.* (**3,** 1957)

Briggs, George M., Ph.D. Natl. Insts. of Health, Nutrition Unit, Lab. of Nutrition and Endocrinology, Bethesda 14, Md. *Chief.* (**5,** 1947)

Brin, Myron, Ph.D. Food and Drug Research Labs., Inc., Maurice Ave. at 58th St., Maspeth 78, New York City. *Chief Biologist.* (**2,** 1955; **5,** 1957)

Brink, Frank, Jr., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1942)

Brink, Norman G., Ph.D. Merck and Co., Inc., Rahway, N. J. *Dir., Bio-Organic Chemistry.* (**2,** 1956)

Brinkhous, K. M., M.D. Univ. of North Carolina School of Medicine, Dept. of Pathology, Chapel Hill. *Prof. of Pathology.* (**4,** 1939)

Briody, Bernard A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. of Microbiology and Dir. of Virus Lab.* (**6,** 1951)

Briscoe, William A., D.M. Bellevue Hosp., Cardio-Pulmonary Lab. C6, New York City 16. *Asst. Prof. of Medicine, Columbia Univ.* (**1,** 1957)

Britton, Sydney W., M.D. R. 1, Charlottesville, Va. (**1R,** 1925)

Brobeck, John R., M.D., Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Chairman, Dept. of Physiology.* (**1,** 1943)

Brodie, Arnold F., Ph.D. Harvard Med. School, Boston 15, Mass. *Assoc., Dept. of Bacteriology.* (**2,** 1957)

Brodie, Bernard B., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2,** 1940; **3,** 1945)

Brodsky, William A., M.D. Univ. of Louisville, School of Medicine, Louisville, Ky. *Research Assoc. Prof. of Physiology; Estab. Investigator, Amer. Heart Assn.* (**1,** 1952)

Brody, Alfred W., M.D., D.Sc. Creighton Univ. School of Medicine, Omaha 2, Neb. *Assoc. Prof., Chair of Cardiovascular Research.* (**1,** 1957)

Brody, Daniel A., M.D. Univ. of Tennessee, Memphis. *Assoc. Prof., Dept. of Medicine.* (**1,** 1953)

Brody, Theodore M., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Asst. Prof.* (**3,** 1953)

Broh-Kahn, Robert H., M.D. Labs. for Pharmaceutical Develop., Inc., Yonkers, N. Y. *President.* (**1,** 1948)

Bromiley, Reginald B., Ph.D. Defence Research Med. Labs., Postal Station "K", Box 62, Toronto, Ont., Canada. *Supt., Psychology and Sociology Wing.* (**1,** 1949)

Bronk, Detlev W., Ph.D., Sc.D. Rockefeller Inst., New York City 21. *President; Pres. of Natl. Academy of Sciences.* (**1,** 1927)

Brookes, Margaret C. Hessler, Ph.D. 5718 S. Dorchester Ave., Chicago 37, Ill. *Consultant, Chicago Heart Assn.* (**5,** 1935)

Brookhart, John M., Ph.D. Univ. of Oregon School of Medicine, Dept. of Physiology, Portland. *Prof. and Head of Dept.* (**1,** 1946)

Brooks, Chandler McCuskey, Ph.D. State Univ. of New York, College of Medicine at New York City, Dept. of Physiology, 450 Clarkson Ave., Brooklyn 3. *Prof. and Chairman of Dept.* (**1,** 1934; **3,** 1950)

Brooks, Clyde, Ph.D., M.D. Station 3, Tuscaloosa, Ala. (**1,** 1910; **3,** 1912)

Brooks, Frank Pickering, M.D., Sc.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiology, Philadelphia 4. *Asst. Prof.* (**1,** 1957)

Brooks, Matilda Moldenhauer, Ph.D. Univ. of California, Dept. of Physiology, Berkeley. *Research Assoc. in Physiology.* (**1,** 1923)

Brooks, Vernon B., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Associate.* (**1,** 1957)

Broquist, Harry P., Ph.D. Research Div., American Cyanamid Co., Pearl River, N. Y. (**2,** 1951)

Brouha, Lucien, M.D., D.Sc. DuPont Co., Haskell Lab., Wilmington, Del. *Chief Physiologist.* (**1,** 1953)

Broun, Goronwy Owen, M.D. 1325 S. Grand Blvd., St. Louis, Mo. *Prof. of Internal Medicine, St. Louis Univ.* (**4,** 1927)

Brown, Arnold L., Jr., M.D. Presbyterian-St. Luke's Hosp., Chicago 12, Ill. *Instr. in Pathology, Univ. of Illinois.* (**4,** 1957)

Brown, Barbara Banker, Ph.D. Wm. S. Merrell Co., Scientific Div., Cincinnati 15, Ohio. *Head, Dept. of Pharmacology.* (**3,** 1951)

Brown, Claude P., M.D. 1930 Chestnut St., Philadelphia, Pa. *Practicing Clin. Pathologist.* (**6,** 1913)

Brown, David Henry, Ph.D. Washington Univ. Med. School, Dept. of Biological Chemistry, St. Louis 10, Mo. *Assoc. Prof.* (**2,** 1954)

Brown, Dugald E. S., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. (**1,** 1932)

Brown, Edgar D., Pharm. D., M.D. Paynesville, Minn. *Retired.* (**1R,** 1907; **3R,** 1909)

Brown, Ellen, M.D. Univ. of California Med. Center, Dept. of Medicine, San Francisco 22. *Assoc. Prof.* (**1,** 1954)

Brown, Ernest B., Jr., Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Professor.* (**1,** 1950)

Brown, Ethan Allan, L.R.C.P. (London), M.R. C.S. (England). 75 Bay State Rd., Boston, Mass. (**6,** 1946)

Brown, Frank A., Jr., Ph.D. Northwestern Univ., Dept. of Biological Sciences, Evanston, Ill. *Professor.* (**1,** 1940)

Brown, George B., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Head, Div. of Protein Chemistry; Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1947)

Brown, George W., Ph.D. VA Hosp., Gen. Med. Research Lab., Iowa City, Iowa. *Director.* (**1,** 1955)

Brown, Gordon Campbell, Sc.D. Univ. of Michigan School of Public Health, Ann Arbor, Mich. *Prof. of Epidemiology.* (**6,** 1949)

Brown, J. H. U., Ph.D. Emory Univ., School of Medicine, Dept. of Physiology, Emory, Ga. *Assoc. Prof.; Acting Chairman.* (**1,** 1952)

Brown, John B., Ph.D. Ohio State Univ., Columbus. *Prof. and Chairman of Physiological Chemistry and Pharmacology, and Dir., Inst. of Nutrition and Food Technology.* (**2,** 1927; **5,** 1934)

Brown, Milton Herbert, M.D. University of Toronto, School of Hygiene, Toronto, Canada. *Prof. and Head of Dept. of Public Health; Assoc. Dir., School of Hygiene.* (**6,** 1956)

Brown, R. A., Ph.D. Parke Davis & Co., Sec. #18, Detroit 32, Mich. *Dir. of Bio-Assay Div.* (**5,** 1946)

Brown, Rachel, Ph.D. 26 Buckingham Drive, Albany, N. Y. *Assoc. Biochemist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** 1933)

Brown, Ray K., M.D., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Asst. Dir. in charge of Labs. for Biochemistry and Immunology.* (**2,** 1956)

Brown, Robert V., Ph.D. Directorate of Med. Research, Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Pharmacology Br.* (**1,** 1945; **3,** 1950)

Browne, J. S. L., M.D., Ph.D. McGill Univ., Dept. of Investigative Medicine, Med. Bldg. 1, Montreal, Canada. *Professor.* (**1,** 1934)

Brownell, Katharine A., Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Asst. Prof.* (**1,** 1943)

Brožek, Josef, Ph.D. Univ. of Minnesota, Stadium South Tower, Minneapolis 14. *Prof., Lab. of Physiological Hygiene, School of Public Health.* (**1,** 1947; **5,** 1957)

Brues, Austin M., M.D. Argonne National Labs., P.O. Box 299, Lemont, Ill. *Dir. of Biology Div.* (**1,** 1940)

Bruesch, S. R., M.D., Ph.D. Univ. of Tennessee, Div. of Anatomy, Memphis 3. *Prof. of Anatomy.* (**1,** 1949)

Bruger, Maurice, M.D., M.Sc. 301 E. 20th St., New York City 3. *Assoc. Prof. of Medicine, New York Univ. Post-Grad. Med. School; Dir., Dept. of Clin. Pathology, New York Univ. Hosp.* (**2,** 1935; **5,** 1935)

Bruhn, John M., Ph.D. Univ. of Alabama Med. Ctr., Dept. of Physiology, Birmingham 3. *Professor and Chairman.* (**1,** 1939).

Bruner, Harry Davis, M.D., Ph.D. 9404 Byeforde Rd., Kensington, Md. *Chief, Med. Research, USAEC.* (**1,** 1954; **3,** 1945)

Brunschwig, Alexander, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Surgery; Attending Surgeon, Memorial Hosp.* (**4,** 1937)

Brunson, Joel Garrett, M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Instr. in Pathology.* (**4,** 1957)

Bryan, W. Ray, Ph.D. 4405 Bywood Lane, Bethesda, Md. *Biologist, Natl. Cancer Inst., NIH.* (**1,** 1934; **4,** 1940; **6,** 1954)

Buchanan, Donald L., M.D. VA Hosp., West Haven 16, Conn. *Chief, Radioisotope Service.* (**2,** 1954)

Buchanan, John M., Ph.D. Massachusetts Inst. of Technology, Div. of Biochemistry, Dept. of Biology, 77 Mass. Ave., Cambridge 39. *Prof. and Head of Div. of Biochemistry.* (**2,** 1949)

Buchbinder, Leon, Ph.D. Dept. of Health, 125 Worth St., New York City. *Asst. Dir., Bur. of Labs.* (**6R,** 1934)

Buchbinder, William C., M.D. 1893 Sheridan Rd., Highland Park, Ill. *Assoc. Prof. of Medicine, Northwestern Univ. Med. School; Attending in Medicine, Michael Reese Hosp.; Consultant in Medicine, Highland Park Hosp.* (**1,** 1940)

Bucher, Nancy L. R., M.D. Massachusetts Gen. Hosp., Huntington Labs., Boston 14. *Assoc. Biologist; Research Assoc. in Medicine, Harvard Med. School.* (**1,** 1955)

Buckley, Nancy Margaret, M.D. Albert Einstein College of Medicine, Dept. of Physiology, New York City 61. *Asst. Prof.* (**1,** 1957)

Buckner, G. Davis, Ph.D. Kentucky Agricultural Exper. Station, Lexington. *In charge of Animal Nutrition (Emeritus).* (**2R,** 1920)

Bucy, Paul C., M.D. 5830 Stony Island Ave., Chicago 37, Ill. *Prof. of Surgery, Northwestern Univ. Med. School.* (**1,** 1933)

Buddingh, G. John, M.D. Louisiana State Univ.

School of Medicine, New Orleans. *Prof. of Microbiology; Head of Dept.* (**4,** 1940)

Bueding, Ernest, M.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Prof. of Pharmacology and Chairman of Dept.* (**2,** 1946; **3,** 1949)

Buell, Mary V., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Professor.* (**2,** 1921)

Buescher, Edward Louis, M.D. Walter Reed Army Inst. of Research, WRAMC, Washington 12, D. C. *Chief, Dept. of Virus Diseases.* (**6,** 1957)

Buettner, K., Ph.D. Univ. of Washington, Dept. of Meteorology, Seattle 5. *Prof. of Meteorology and Research Physiologist.* (**1,** 1955)

Bugher, John C., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 21. *Dir. for Med. Education and Public Health.* (**4,** 1935)

Bukantz, Samuel C., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Clin. Medicine.* (**6,** 1943)

Bulatao, Emilio, M.D. Univ. of the Philippines, Manila, P. I. *Prof. of Physiology and Biochemistry.* (**1R,** 1924)

Bull, Henry B., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Prof. and Head of Dept.* (2, 1937)

Bullock, Theodore H., Ph.D. Univ. of California, Los Angeles. *Prof. of Zoology.* (**1,** 1948)

Bunde, Carl A., M.D., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Research Dir.* (**1,** 1943)

Bunker, John P., M.D. Massachusetts Gen. Hosp., Dept. of Anesthesia, Boston. *Asst. Clin. Prof. of Anesthesia, Harvard Med. School.* (**3,** 1954)

Bunney, William Edward, Ph.D. E. R. Squibb and Sons, Div. of Olin Mathieson Chemical Corp., New Brunswick, N. J. *Vice Pres.; Dir. of Manufacturing Operations.* (**6,** 1931)

Bunting, Charles H., M.D. 50 Broad Ripple Dr., Princeton, N. J. *Prof. Emeritus of Pathology, Univ. of Wisconsin.* (**4R,** 1913)

Bunzell, H. H., Ph.D. Box 44, General Post Office, New York City 1. *Dir. of Bunzell Labs.* (**2R,** 1908)

Burbridge, Thomas N., M.D., Ph.D. Univ. of California School of Medicine, Dept. of Pharmacology, San Francisco 22. *Asst. Prof.* (**3,** 1957)

Burch, Helen B., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof.* (**2,** 1956)

Burchell, Howard B., M.D., Ph.D. Rochester, Minn. *Prof. in Medicine, Mayo Foundation; Consultant in Medicine, Mayo Clinic.* (**1,** 1942)

Burchenal, Joseph H., M.D. Sloan-Kettering Inst., Cornell Univ. Med. College, New York City 21. *Prof. of Medicine.* (**5,** 1954)

Burdick, H. O., Sc.D. Alfred Univ., Alfred, N. Y. *Prof. and Chairman of Dept. of Biology.* (**1,** 1940)

Burdon, Kenneth L., Ph.D. Baylor Univ. College of Medicine, Houston, Tex. *Prof. of Microbiology; Chairman of Dept.; Consultant, Veterans Administration Hospital.* (**6,** 1936)

Burgen, A. S. V., M.B., MRCP. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor.* (**1,** 1950; **3,** 1950)

Burk, Dean, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Head Chemist, PHS.* (**2,** 1939)

Burke, Bertha S., M.A. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Assoc. Prof. of Maternal and Child Nutrition.* (**5,** 1952)

Burke, John C., Ph.D. E. R. Squibb and Sons, Div. of Pharmacology, New Brunswick, N. J. *Dept. Head.* (**3,** 1953)

Burn, J. Harold, M.D. Oxford Univ., Oxford, England. *Prof. in charge of Dept. of Pharmacology.* (**3,** 1954)

Burns, B. Delisle. McGill Univ., Dept. of Physiology, Montreal, Canada. *Assoc. Prof.* (**1,** 1954)

Burns, Edward L., M.D. Mercy Hospital, Toledo, Ohio. *Pathologist.* (**4,** 1939)

Burns, John J., Ph.D. Natl. Heart Inst., NIH Bethesda 14, Md. *Head, Lab. of Clinical Pharmacology.* (**2,** 1956; **3,** 1954)

Burr, George O., Ph.D. Exper. Station. H.S.P.A., Honolulu, Hawaii. *Head of Dept. of Biochemistry and Physiology.* (**2,** 1928; **5,** 1933)

Burris, Robert H., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Professor.* (**2,** 1946)

Burroughs, Wise, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Professor.* (**5,** 1951)

Burrows, William, Ph.D. Univ. of Chicago, Dept. of Microbiology, Chicago 37, Ill. *Professor.* (**6,** 1947)

Burstone, M. S., D.D.S. Natl. Insts. of Health, Bethesda 14, Md. *Dental Surgeon.* (**4,** 1955)

Burton, Alan C., Ph.D. Univ. of Western Ontario Med. School, Dept. of Biophysics, London, Ontario, Canada. *Prof. and Head of Dept.* (**1,** 1937)

Busch, Harris, M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago 12, Ill. *Assoc. Prof. of Pharmacology.* (**2,** 1955; **3,** 1957)

Bush, Milton T., Ph.D. Vanderbilt Univ. School of Medicine, Nashville 4, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1938)

Bussard, Alain, Ph.D. Pasteur Inst., Paris, France. *Chef de Laboratoire.* (**6,** 1952)

Butler, G. C., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ont., Canada. *Professor.* (**2,** 1949)

Butler, Thomas C., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Prof. of Pharmacology.* (**3,** 1938)

Butt, Hugh R., M.D. Mayo Clinic, 200 First St.,

S.W., Rochester, Minn. *Consultant in Medicine; Prof. of Medicine, Mayo Foundation.* (**5,** 1942)

Butts, Joseph S., Ph.D. Oregon State College, Corvallis. *Prof. of Biochemistry and Head of Agricultural Chemistry.* (**2,** 1936; **5,** 1936)

Byerrum, Richard U., Ph.D. Michigan State Univ., Kedzie Chemical Lab., East Lansing. *Prof. of Chemistry.* (**2,** 1954)

Byers, Sanford O., Ph.D. 1600 Divisadero St., San Francisco 15, Calif. *Research Biochemist, Harold Brunn Inst. for Cardiovascular Research, Mount Zion Hospital.* (**1,** 1949)

Cahen, Raymond L., Ph.D., M.D. Laboratories Lafon, 17 Rue du Faubourg, Montmartre 17, Paris 9, France. *Research Dir.* (**3,** 1949)

Cahill, William M., Ph.D., M.D. S. California Edison Co., 501 S. Marengo, Alhambra. *Physician and Surgeon, Med. Dept.* (**2,** 1940)

Cajori, Florian A., Ph.D. Univ. of Colorado Med. School, Denver 20. *Assoc. Prof. of Biochemistry.* (**2,** 1922; **5,** 1933)

Caldwell, Mary L., Ph.D. Columbia Univ., New York City 27. *Prof. of Chemistry.* (**2,** 1924; **5,** 1933)

Calesnick, Benjamin, M.D. 1036 S. 54th St., Philadelphia 43, Pa. *Asst. Prof. in Clinical Pharmacology, Hahnemann Med. College.* (**3,** 1951)

Calhoon, Thomas Bruce, Ph.D. Med. College o South Carolina, Dept. of Physiology, Charleston. *Asst. Prof.* (**1,** 1957)

Calloway, Doris H., Ph.D. QM Food and Container Inst. for the Armed Forces, Nutrition Div., 1819 W. Pershing Rd., Chicago 9, Ill. *Nutritionist.* (**5,** 1955)

Calloway, Nathaniel Oglesby, Ph.D., M.D. Med. Associates of Chicago, 3233 S. Parkway, Chicago 16, Ill. (**3,** 1945)

Calvin, D. Bailey, Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Biological Chemistry and Dean of Student and Curricular Affairs.* (**1,** 1934; **2,** 1939)

Calvin, Melvin, Ph.D. Univ. of California, Berkeley 4. *Prof. of Chemistry.* (**2,** 1949)

Camien, Merrill N., Ph.D. Univ. of California at Los Angeles, Dept. of Chemistry, Los Angeles 24. *Assoc. Research Chemist.* (**2,** 1953)

Caminopetros, John, M.D. 61 Emm. Benaki Str., and A. Metaxa 17, Athens, Greece. (**6,** 1946)

Camp, Walter J. R., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Prof. of Pharmacology and Toxicology; State Toxicologist.* (**3,** 1926)

Campbell, Berry, Ph.D. Univ. of Minnesota, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1,** 1945)

Campbell, Dan H., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Immunochemistry.* (**6,** 1938)

Campbell, H. Louise, Ph.D. 916 Windsor Ave., Windsor, Conn. (**5R,** 1933)

Campbell, J. Alexander, Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Chief, Vitamin and Nutrition Lab.* (**5,** 1950)

Campbell, James, Ph.D. Univ. of Toronto, Toronto, Ont., Canada. *Assoc. Prof. of Physiology.* (**1,** 1943)

Campbell, L. Leon, Jr., Ph.D. State College of Washington, Lab. of Food Microbiology, Pullman. *Assoc. Prof. and Assoc. Bacteriologist.* (**2,** 1957)

Campbell, Walter Ruggles, M.D. 101 Douglas Drive, Toronto, Ont., Canada. *Assoc. Prof. of Medicine, Univ. of Toronto.* (**2R,** 1922)

Canellakis, E. S., Ph.D. Yale Univ. School of Medicine, Dept. of Pharmacology, New Haven, Conn. *Asst. Prof.* (**2,** 1956)

Cann, John R., Ph.D. Univ. of Colorado School of Medicine, Denver 20. *Assoc. Prof. of Biophysics.* (**6,** 1955)

Cannan, R. Keith, D.Sc. Natl. Research Council, 2101 Constitution Ave., Washington, D. C. *Chairman, Div. of Med. Sciences.* (**2,** 1931)

Cannon, Paul R., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1930; **6,** 1929)

Cantarow, Abraham, M.D. Jefferson Med. College, Philadelphia 7, Pa. *Prof. of Biochemistry and Head of Dept.* (**1,** 1932; **3,** 1935)

Cantoni, G. L., M.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Chief, Lab. of Cellular Pharmacology.* (**2,** 1953; **3,** 1945)

Cantrell, William F., Ph.D. Univ. of Louisville, 101 W. Chestnut St., Louisville 2, Ky. *Assoc. Prof. of Pharmacology.* (**3,** 1954)

Canzanelli, Attilio, M.D. Tufts Univ. School of Medicine, Boston, Mass. *Prof. of Physiology.* (**1,** 1934)

Capps, Robert T., M.D., Ph.D. Parkland Mem. Hosp., Dallas 19, Texas. *Asst. Prof. of Anesthesia.* (**3,** 1951)

Caputto, Ranwel, M.D. Oklahoma Med. Research Fndn., Oklahoma City 4. *Head, Biochemistry.* (**2,** 1955)

Carlson, Loren D., Ph.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. (**1,** 1945)

Carmichael, Emmett B., Ph.D. Univ. of Alabama Med. College and School of Dentistry, Dept. of Biochemistry, 1919 Seventh Ave., So., Birmingham 3. *Prof. and Chairman of Dept.* (**1,** 1931; **2,** 1946)

Carmichael, Leonard, Ph.D., Sc.D. Smithsonian Institution, Washington 25, D. C. *Secretary (Dir.).* (**1,** 1937)

Carnes, William H., M.D. Salt Lake Gen. Hosp., Salt Lake City, Utah. *Prof. of Pathology, Univ. of Utah.* (**4,** 1951)

Carpenter, Frank G., Ph.D. Dartmouth Med.

College, Dept. of Physiological Sciences, Hanover, N. H. *Asst. Prof.* (1, 1956)

Carpenter, Frederick H., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Assoc. Prof.* (2, 1949)

Carpenter, Thorne M., Ph.D. 142 Birch Tree Drive, Westwood, Mass. (1R, 1915; 2R, 1909; 5R, 1935)

Carr, C. Jelleff, Ph.D. Natl. Inst. of Mental Health, Psychopharmacology Service Ctr., NIH, Bethesda 14, Md. *Sr. Research Pharmacologist.* (3, 1940)

Carr, Charles W., Ph.D. Univ. of Minnesota, Dept. of Physiological Chemistry, Minneapolis 14. *Asst. Prof.* (2, 1957)

Carr, Edward A., Jr., M.D. Univ. of Michigan, Ann Arbor. *Asst. Prof. of Pharmacology; Asst. Prof. of Internal Medicine.* (3, 1957)

Carr, Jesse L., M.D. San Francisco Hospital, San Francisco, Calif. *Clin. Prof. of Pathology.* (4, 1940)

Carrera, Guillermo M., M.D. Ochsner Fndn. Hosp., 1516 Jefferson Highway, New Orleans, La. (4, 1951)

Carrick, C. W., M.S.A. Purdue Univ., Lafayette, Indiana. *Prof. of Poultry Science.* (5, 1954)

Carruthers, Christopher, Ph.D. Roswell Park Memorial Inst., 666 Elm St., Buffalo 3, N. Y. *Assoc. Cancer Research Scientist (Biochemistry).* (2, 1948)

Carson, Stanley F., Ph.D. Oak Ridge Natl. Lab., Biology Div., P. O. Box Y, Oak Ridge, Tenn. *Principal Biochemist.* (2, 1952)

Carter, Charles E., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Prof. of Pharmacology.* (2, 1950)

Carter, Herbert E., Ph.D. Univ. of Illinois, 108 Noyes Lab., Urbana. *Prof. of Biochemistry and Head of Dept.* (2, 1937; 5, 1941)

Carter, John R., M.D. State Univ. of Iowa College of Medicine, Dept. of Pathology, Iowa City. *Prof. of Pathology.* (4, 1951)

Cartland, George F., Ph.D. The Upjohn Co., Research Dept., Kalamazoo, Mich. *Asst. Dir. of Research.* (2, 1936)

Cartwright, G. E., M.D. Salt Lake Gen. Hospital, Salt Lake City, Utah. *Assoc. Prof. of Medicine, Univ. of Utah.* (5, 1951)

Cary, Charles A., S.B. 141 N.W. 100th Terrace, Miami Shores, Fla. (2R, 1920)

Casarett, George W., Ph.D. Univ. of Rochester Med. Ctr., Rochester 20, N. Y. *Instr. in Radiation Biology; Scientist, Atomic Energy Project.* (4, 1957)

Casas, Carmen B., Ph.D. School of Tropical Medicine, The Med. School, San Juan, Puerto Rico. *Assoc. Prof. of Physiology.* (1, 1952)

Casey, Albert Eugene, M.D. 2236 Highland Ave., Birmingham 9, Ala. *Pathologist and Dir. of Labs., Baptist Hosp.; Prof. of Pathology, Univ. of Alabama Med. Ctr.* (4, 1933)

Cash, James Robert, M.D. Univ. Hospital, Charlottesville, Va. *Prof. of Pathology, Univ. of Virginia School of Medicine.* (4, 1924)

Casselman, W. G. Bruce, Ph.D., M.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto, Canada. *Assoc. Prof.; Assoc. Prof. of Histology, Dept. of Anatomy.* (1, 1957)

Cassidy, Harold G., Ph.D. Yale Univ., Dept. of Chemistry, New Haven, Conn. *Assoc. Prof.* (2, 1949)

Caster, W. O., Ph.D. Univ. of Minnesota, 227 Millard Hall, Minneapolis 14. *Asst. Prof., Physiological Chemistry.* (2, 1956)

Castle, Edward S., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Prof. of Physiology.* (1, 1934)

Castle, William B., M.D. Boston City Hospital, Boston, Mass. *George Richards Minot Prof. of Medicine, Harvard Univ.; Dir. of Thorndike Memorial Lab.* (4, 1942)

Castleman, Benjamin, M.D. Massachusetts Gen. Hosp., Dept. of Pathology, Boston. *Chief; Clin. Prof. of Pathology, Harvard Med. School.* (4, 1954)

Catchpole, Hubert Ralph, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Research Assoc. Prof. of Pathology.* (1, 1941)

Catron, Damon, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Professor.* (5, 1953)

Catron, Lloyd, M.D. Akron City Hospital, Akron, Ohio. *Pathologist and Dir. of Labs.* (4, 1939)

Cattell, McKeen, Ph. D., M. D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Clin. Pharmacology.* (1, 1923; 3, 1924)

Cavalieri, Liebe Frank, Ph.D. Sloan-Kettering Inst., 440 East 68th St., New York City 21. *Assoc.; Assoc. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Med. College.* (2, 1953)

Cavanaugh, Daniel J., Ph.D. Southeast Louisiana Hosp., Mandeville. *Biochemist.* (3, 1957)

Cavelti, Philip A., M.D. 853 Middlefield Rd., Palo Alto, Calif. (6, 1947)

Cavert, H. Mead, M.D., Ph.D. Univ. of Minnesota Med. School, Dept. of Physiology, Minneapolis 14. *Asst. Prof.* (1, 1954)

Cazort, Ralph Jerry, M.D. Meharry Med. College, Nashville 8, Tenn. *Assoc. Prof. of Pharmacology.* (3, 1951)

Cederquist, Dena C., Ph.D. Michigan State Univ., College of Home Economics, East Lansing. *Prof. of Foods and Nutrition.* (5, 1949)

Ceithaml, Joseph J., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry; Dean of Students in Biological Sciences.* (2, 1950)

Cerecedo, Leopold R., Ph.D. Fordham Univ.,

Dept. of Chemistry, New York City. *Prof. of Biochemistry.* (**2,** 1931; **5,** 1945)

Chadwick, Leigh Edward, Ph.D. Univ. of Illinois, Dept. of Entomology, Urbana. *Dept. Head.* (**1,** 1944)

Chaikoff, I. L., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Physiology.* (**1,** 1932)

Chalkley, Harold W., Ph.D. 4609 Highland Ave., Bethesda 14, Md. (**1R,** 1932)

Chamberlain, W. Edward, M.D. 152 Van Winkle Drive, Falls Church, Va. *Special Asst. for Atomic Medicine, and Assoc. Dir., Research Service, Veterans Administration.* (**1,** 1948)

Chambers, Alfred H., Ph.D. Univ. of Vermont College of Medicine, Dept. of Physiology and Biophysics, Burlington. *Assoc. Prof.* (**1,** 1946)

Chambers, Edward L., M.D. Univ. of Miami School of Medicine, Coral Gables 34, Fla. *Assoc. Prof. of Physiology.* (**1,** 1956)

Chambers, Leslie Addison, Ph.D. County of Los Angeles Air Pollution Control Dist., Los Angeles 13, Calif. *Dir. of Research.* (**1,** 1940; **6,** 1948)

Chambers, W. W., Ph.D. Univ. of Pennsylvania, School of Medicine, Dept. of Anatomy, Philadelphia 4. *Assoc. Prof.* (**1,** 1950)

Chambers, William H., Ph.D. Directorate of Med. Research, Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Physiology Div.* (**1,** 1924; **5,** 1933)

Chance, Britton, Ph.D., D.Sc. Univ. of Pennsylvania, Johnson Fndn., 36th and Spruce Sts., Philadelphia 4. *Prof. and Dir. of Johnson Foundation.* (**1,** 1950; **2,** 1950)

Chandler, Joseph P., Ph.D. Univ. of Michigan Med. School, Room G455, Univ. Hosp., Ann Arbor. *Assoc. Prof. of Biological Chemistry; Biochemist, Univ. Hosp.* (**2,** 1944; **5,** 1944)

Chang, Hsiang-Tung, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Associate.* (**1,** 1954)

Chang, Min Chueh, Ph.D. Worcester Foundation for Exptl. Biology, Shrewsbury, Mass. *Research Assoc.* (**1,** 1946)

Changus, George W., M.D. Sloan-Kettering Inst., 410 E. 68th St., New York City 21. (**4,** 1951)

Chanutin, Alfred, Ph.D. Univ. of Virginia School of Medicine, Biochemical Lab., Charlottesville. *Prof. of Biochemistry.* (**2,** 1925)

Chapin, John Ladner, Ph.D. Univ. of Colorado Med. School, Dept. of Physiology, Denver 20. *Asst. Prof.* (**1,** 1957)

Chapman, Loring Frederick, Ph.D. Cornell Univ. Med. College, New York City 21. *Research Fellow.* (**1,** 1957)

Charalampous, Frixos C., M.D., Sc.D. Univ. of Pennsylvania Med. School, Dept. of Chemistry, Philadelphia 4. *Asst. Prof. of Biochemistry.* (**2,** 1955)

Chargaff, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1935)

Charipper, Harry Adolph, Ph.D. Washington Square College of Arts and Sciences, 100 Washington Square E., New York City. *Prof. and Head of Dept. of Biology.* (**1,** 1941)

Charney, Jesse, M.S. Merck Sharp & Dohme Research Labs., West Point, Pa. *Research Assoc.* (**2,** 1954)

Chase, Aurin M., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Assoc. Prof.* (**1,** 1939; **2,** 1957)

Chase, Harold F., M.D. Jefferson Med. College, Philadelphia 7, Pa. *Clin. and Research Prof.* (**3,** 1944)

Chase, Merrill W., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc. Member.* (**6,** 1938)

Chasis, Herbert, M.D., Med. Sc.D. 550 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1941)

Chatfield, Charlotte, B.S. 4 El Sereno Dr., San Carlos, Calif. (**5,** 1941)

Chatfield, Paul Oakes, M.D. Jefferson Med. College, Dept. of Neurology, Philadelphia 3, Pa. *Asst. Prof. of Neurophysiology.* (**1,** 1950)

Chatterjee, Hemendra Nath, M.D. 9 Romes Mitter Rd., Bhowanipur, Calcutta 25, India. (**6,** 1948)

Cheever, Francis Sargent, M.D. Univ. of Pittsburgh Grad. School of Public Health, Pittsburgh 13, Pa. *Prof. of Microbiology.* (**6,** 1950)

Cheldelin, Vernon H., Ph.D. Oregon State College, Corvallis. *Prof. of Chemistry; Dir., Science Research Inst.* (**2,** 1947; **5,** 1946)

Chen, Graham, Sc.D., M.D. Parke, Davis & Co., Detroit 32, Mich. *Lab. Dir.; Research Pharmacologist.* (**3,** 1944)

Chen, James Yu-ping, M.D. Marquette Univ. School of Medicine, Dept. of Pharmacology, Milwaukee 3, Wis. *Assoc. Prof. of Pharmacology.* (**3,** 1951)

Chen, K. K., Ph.D., M.D. Lilly Research Labs., Indianapolis 6, Ind. *Dir. of Pharmacological Research.* (**1,** 1929; **3,** 1925)

Cheney, Ralph H., Sc.D. Brooklyn College, Biology Dept., Bedford Ave. and Ave. H, Brooklyn 10, N. Y. *Professor.* (**3,** 1934)

Cheng, Amber L. S., Ph.D. Univ. of Southern California, Dept. of Biochemistry and Nutrition, Los Angeles 7. *Research Assoc.* (**5,** 1957)

Chenoweth, Maynard B. M.D. The Dow Chemical Co., Biochemical Research Lab., Midland, Mich. *Dir., Basic Biochemical Research Lab* (**3,** 1945)

Chernick, Sidney S., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Scientist, PHS.* (**2,** 1954)

Chesley, Leon C., Ph.D. 45 DuBonnet Road, Valley Stream, N. Y. *Assoc. Prof. of Obstetrics and Gynecology, State Univ. of New York College of Medicine.* **(1,** 1949)

Chesney, Alan M., M.D. Johns Hopkins Hospital, Baltimore, Md. *Dean Emeritus of the Med. Faculty; Assoc. Prof. Emeritus of Medicine, Johns Hopkins Univ.* **(4,** 1925)

Child, George P., Ph.D., M.D. Roselle Park, N. J. **(3,** 1949)

Chin, Yin-Ch'ang, Ph.D. 1268 Sixth Ave., San Francisco, Calif. *Research Fellow, Univ. of California; Asst. Prof., Peking Union Med. College.* **(3,** 1950)

Chinard, Francis P., M.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry and Medicine; Asst. Chief of Medicine, Baltimore City Hosps.* **(2,** 1951)

Chinn, Herman I., Ph.D. Office of Scientific Research, Air Research and Development Command, Washington 25, D. C. *Biochemist.* **(1,** 1950; **3,** 1951)

Chopra, R. N., M.D., Sc.D. Drug Research Lab., Canal Rd., Jammu-Tawi, Kashmir, India. *Director.* **(3H,** 1938)

Chow, Bacon F., Ph.D. Johns Hopkins Univ. School of Hygiene, 615 N. Wolfe St., Baltimore 14, Md. *Assoc. Prof. of Biochemistry.* **(2,** 1940; **5,** 1948; **6,** 1944)

Christensen, Halvor N., Ph.D. Univ. of Michigan, Dept. of Biological Chemistry, Ann Arbor. *Prof. and Head of Dept.* **(2,** 1947)

Christensen, L. Royal, Ph.D. New York Univ. College of Medicine, Dept. of Microbiology, 550 First Ave., New York City. *Assoc. Prof.; Dir., Berg Inst.* **(6,** 1942)

Christian, John J., Sc.D. Naval Med. Research Inst., Bethesda 14, Md. *Physiologist, Exptl. Medicine.* **(4,** 1955)

Christie, Ronald V., M.D., D.Sc. Royal Victoria Hosp., Montreal, Canada. *Physician-in-Chief; Prof. of Medicine and Chairman of Dept., McGill Univ.* **(1,** 1957)

Christman, Adam A., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* **(2,** 1929)

Churney, Leon, Ph.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Assoc. Prof. of Physiology.* **(1,** 1953)

Chusid, Joseph G., M.D. St. Vincent's Hospital, Neurological Div., 145 W. 11th St., New York City 11. *Attending Neurologist.* **(1,** 1951)

Cizek, Louis Joseph, M.D. Columbia Univ. College of Physicians & Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Assoc. Prof.* **(1,** 1951)

Clamann, Hans G., M.D. USAF School of Aviation Medicine, Dept. of Physiology and Biophysics, Randolph Field, Tex. *Research Physiologist.* **(1,** 1953)

Clare, Margaret H., M.A., Washington Univ. School of Medicine, Lab. of Neurophysiology, St. Louis 10, Mo. *Research Assoc.* **(1,** 1955)

Clark, Byron B., Ph.D. Tufts Univ. School of Medicine, Boston 15, Mass. *Prof. of Pharmacology and Chairman of Dept.* **(3,** 1940)

Clark, Eliot R., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Anatomy.* **(1R,** 1919)

Clark, Ernest D., Ph.D. 424 Harvard Ave. No., Seattle 2, Wash. **(2R,** 1912)

Clark, George, Ph.D. Univ. of Buffalo, Dept. of Physiology, Buffalo 14, N. Y. *Assoc. Prof. of Physiology.* **(1,** 1943)

Clark, Guy W., Ph.D. R.F.D. 5330 Wild Horse Valley Rd., Napa, Calif. **(2R,** 1922)

Clark, Irwin, Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head, Isotope Dept.* **(2,** 1956)

Clark, Janet Howell, Ph.D. 708 Cedarcroft Rd., Baltimore. Md. *Research Assoc., Dept. of Environmental Medicine, Johns Hopkins Univ.* **(1R,** 1922)

Clark, John Kapp, M.D. Univ. of Pennsylvania, Univ. Hospital, Philadelphia 4. *Assoc. Prof. of Medicine; Dir. of Research, Smith, Kline & French Labs.* **(1,** 1953)

Clark, Leland C., Jr., Ph.D. Antioch College, Fels Research Inst., Yellow Springs, Ohio. *Research Assoc.* **(1,** 1953)

Clark, Paul F., Ph.D. Univ. of Wisconsin Med. School, Madison. *Prof. Emeritus of Med. Microbiology.* **(6R,** 1928)

Clark, Robert T., Jr., Ph.D. USAF School of Aviation Medicine, Dept. of Physiology and Biophysics, Randolph Field, Tex. *Head.* **(1,** 1953)

Clark, William G., Ph.D. VA Ctr., Gen. Med. Research, Los Angeles 25, Calif. *Chief, Pharmacology-Physiology Section; Clin. Assoc. Prof., Physiological Chemistry, Univ. of California Med. Ctr.* **(1,** 1942; **3,** 1949)

Clark, William Mansfield, Ph.D. Johns Hopkins Univ., Dept. of Chemistry, Baltimore 18, Md. *DeLamar Prof. Emeritus of Physiological Chemistry; Research Prof. of Chemistry.* **(2R,** 1920)

Clarke, Donald A., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc. Member and Head, Solid Tumor Screening Sec.* **(3,** 1952)

Clarke, Hans Thacher, D.Sc. (London). Yale Univ., Dept. of Biochemistry, New Haven, Conn. *Prof. of Biochemistry.* **(2,** 1929)

Clarke, Robert W. Walter Reed Army Inst. of Research, WRAMC, Washington 12, D. C. *Chief, Dept. of Surgical Physiology.* **(1,** 1936)

Clegg, Robert E., Ph.D. Kansas State College, Manhattan. *Prof. of Chemistry.* **(2,** 1957)

Cleghorn, Robert Allen, M.D., D.Sc. McGill Univ., Dept. of Psychiatry, Montreal, Quebec, Canada. *Assoc. Prof.* (**1,** 1937)

Clemente, Carmine D., Ph.D. Univ. of California School of Medicine, Dept. of Anatomy, Los Angeles 24. *Asst. Prof.* (**1,** 1957)

Clemmons, Jackson J., Ph.D. Western Reserve Univ. Inst. of Pathology, Cleveland, Ohio. *Fellow in Pathology.* (**4,** 1956)

Clowes, George Henry Alexander, Ph.D. Eli Lilly & Co., Indianapolis 6, Ind. *Dir. of Research Emeritus.* (**2R,** 1914; **6R,** 1919)

Cluff, Leighton Eggertsen, M.D. Johns Hopkins Hosp., Baltimore 5, Md. *Assoc. Prof. in Medicine; Head, Div. of Immunology, Johns Hopkins Univ.* (**6,** 1954)

Coburn, Alvin F., M.D., 14 Ludlow Dr., Chappaqua, N. Y. (**6,** 1948)

Coca, Arthur F., M.D. 425 Grant Ave., Oradell, N. J. (**6H,** 1916)

Cochin, Joseph, M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Clin. Pharmacologist.* (**3,** 1955)

Cochran, K. W., Ph.D. Univ. of Michigan, School of Public Health, Dept. of Epidemiology, Ann Arbor. *Asst. Prof. of Epidemiology.* (**3,** 1952; **6,** 1957)

Code, Charles F., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology.* (**1,** 1939; **3,** 1950)

Coffey, Julia M., A.B. Div. of Labs. and Research, New York State Dept. of Health, Albany. *Assoc. Bacteriologist.* (**6,** 1937)

Coghill, Robert D., Ph.D. Cancer Chemotherapy Natl. Service Ctr., NIH, Bethesda 14, Md. *Dep. Chief for Industrial Research.* (**2,** 1932)

Cohen, Herman, Ph.D. Princeton Labs., Princeton, N. J. *Research Assoc.* (**1,** 1955)

Cohen, Jonathan, M.D. Children's Med. Ctr., Boston 15, Mass. *Asst. Orthopedic Surgeon and Asst. Pathologist.* (**4,** 1956)

Cohen, Julius J., M.D. Univ. of Cincinnati College of Medicine, Dept. of Physiology, Cincinnati 19, Ohio. *Asst. Prof.* (**1,** 1957)

Cohen, Leonard A., Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh 13, Pa. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1956)

Cohen, Philip P., Ph.D., M.D. Univ. of Wisconsin, Med. School, Madison. *Prof. of Physiological Chemistry.* (**2,** 1941)

Cohen, Saul L., Ph.D. 20 Fraserwood Ave., Apt. 5, Toronto 10, Canada. (**2,** 1948)

Cohen, Seymour S., Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Biochemistry, Philadelphia, Pa. *Prof. of Biochemistry and of Pediatrics.* (**2,** 1946)

Cohen, Sophia M., B.S. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Assoc. Bacteriologist.* (**6,** 1938)

Cohen, Stanley, Ph.D. Washington Univ., Dept. of Zoology, St. Louis 5, Mo. *Asst. Prof.* (**2,** 1954)

Cohn, Clarence, M.D. Michael Reese Hospital, Med. Research Inst., Chicago, Ill. *Dir. of Dept. of Biochemistry.* (**1,** 1948)

Cohn, Melvin, Ph.D. Washington Univ. Med. School, Dept. of Microbiology, St. Louis, Mo. *Professor.* (**2,** 1955)

Cohn, Mildred, Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Established Investigator, Am. Heart Assn.; Research Assoc., Biological Chemistry.* (**2,** 1949)

Cohn, Waldo E., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2,** 1944)

Cole, Harold H., Ph.D. Univ. of California, College of Agriculture, Dept. of Animal Husbandry, Davis. *Prof. and Chairman of Dept.* (**1,** 1947)

Cole, Kenneth S., Ph.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda 14, Md. *Chief, Lab. of Biophysics.* (**1,** 1934)

Cole, Rufus, M.D., D.Sc. Mount Kisco, N. Y. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4R,** 1924; **6R,** 1917)

Cole, Leonard Jay, M.S. U. S. Naval Radiological Defense Lab., Experimental Pathology Br., San Francisco 22, Calif. *Branch Head.* (**1,** 1957)

Cole, Versa V., Ph.D., M.D. Caro State Hosp. for Epileptics, Caro, Mich. *Pharmacologist.* (**3,** 1941)

Collett, Mary E., Ph.D. 34 Weston Rd., Wellesley 81, Mass. (**1R,** 1921)

Collier, Clarence R., M.D. College of Med. Evangelists, Loma Linda, Calif. *Assoc. Prof. of Physiology; Dir. of Research, Rancho Los Amigos Respiratory Ctr. for Poliomyelitis.* (**1,** 1957)

Collier, H. Bruce, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alta., Canada. *Prof. and Head of Dept.* (**2,** 1944)

Collings, William Doyne, Ph.D. Michigan State Univ., Dept. of Physiology, East Lansing. *Professor.* (**1,** 1944)

Collins, Dean A., Ph.D., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Research Prof. of Pharmacology.* (**1,** 1938)

Collins, Russell J., A.M., M.D. 3 Orange St., St. John, New Brunswick, Canada. (**3,** 1915)

Collip, J. B., Ph.D., M.D. Univ. of Western Ontario, R.R. 5, London, Ontario, Canada. *Dean of Medicine; Dir., Div. of Med. Research, Natl. Research Council.* (**1,** 1920; **2,** 1920)

Colowick, Sidney P., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., Baltimore 18, Md. *Prof. of Biology.* (**2,** 1944)

Coman, Dale R., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pathology.* (**4,** 1939)

Comar, Cyril Lewis, Ph.D. Cornell Univ., Ithaca, N. Y. *Dir., Lab. of Radiation Biology.* (2, 1956; 5, 1951)

Combs, Gerald F., Ph.D. Univ. of Maryland, Dept. of Poultry Husbandry, College Park. *Prof. of Poultry Nutrition.* (5, 1954)

Commoner, Barry, Ph.D. Washington Univ., Dept. of Botany, St. Louis 5, Mo. *Prof. of Plant Physiology.* (2, 1956)

Comroe, Julius H., Jr., M.D. Univ. of California Med. Ctr., San Francisco. *Dir., Cardiovascular Research Inst.; Prof. of Physiology.* (1, 1943; 3, 1939)

Condliffe, Peter, Ph.D. 11106 Mitscher St., Kensington, Md. *Chemist, Natl. Inst. of Arthritis and Metabolic Diseases, NIH.* (2, 1957)

Congdon, Charles C., M.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Pathologist.* (4, 1953)

Coniglio, John G., Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Assoc. Prof. of Biochemistry.* (2, 1957)

Conklin, Ruth E., Ph.D. Vassar College, Poughkeepsie, N. Y. *Prof. of Physiology.* (1, 1940)

Conn, Eric E., Ph.D. Univ. of California, Dept. of Agricultural Biochemistry, 337 Biochemistry and Virus Lab., Berkeley 4. *Asst. Prof. of Plant Biochemistry.* (2, 1952)

Conn, Hadley L., Jr., M.D. Hosp. of Univ. of Pennsylvania, Philadelphia 4. *Asst. Prof. of Medicine; Established Investigator, Am. Heart Assn.* (1, 1955)

Consolazio, William V., B. S. National Science Foundation, Washington 25, D. C. *Program Dir. for Molecular Biology.* (2, 1949)

Constantinides, Paris, M.D., Ph.D. Univ. of British Columbia Med. School, Dept. of Anatomy, Vancouver 8, B. C., Canada. *Professor.* (1, 1956)

Conzelman, Gaylord M., Jr., Ph.D. Christ Hosp. Inst. of Med. Research, Cincinnati 19, Ohio. *Research Assoc.* (3, 1957)

Cook, Donald Hunter, Ph.D. Univ. of Miami, Miami 55, Fla. *Prof. of Chemistry.* (2R, 1929)

Cook, Donald L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Pharmacologist.* (3, 1952)

Cook, Leonard, Ph.D. Smith, Kline and French Labs., Dept. of Pharmacology, Philadelphia, Pa. (3, 1955)

Cooke, Robert A., A.M., M.D. 60 E. 58th St., New York City. *Dir. of Dept. of Allergy, Roosevelt Hospital.* (6, 1920)

Coolidge, Thomas B., M.D., Ph.D. Univ. of Chicago, Abbot Hall, Chicago 37, Ill. *Prof., Dept. of Biochemistry and Walter G. Zoller Memorial Dental Clinic.* (2, 1942)

Coon, Julius M., M.D., Ph.D. Jefferson Med. College, Dept. of Pharmacology, 1025 Walnut St., Philadelphia 7, Pa. *Prof. and Head of Dept.* (3, 1941)

Coon, Minor J., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* (2, 1952)

Coon, Robert W., M.D. Univ. of Vermont College of Medicine, Burlington. *Chairman and Prof. of Pathology.* (4, 1955)

Coons, Albert H., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston 15, Mass. *Visiting Prof. of Bacteriology and Immunology; Career Investigator, Am. Heart Assn.* (6, 1950)

Coons, Callie Mae, Ph.D. U. S. Dept. of Agriculture, Human Nutrition Research Div., Washington 25, D. C. *Director.* (5, 1933)

Cooper, Merlin L., M.D. Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati 29, Ohio. *Assoc. Prof. of Bacteriology; Asst. Prof. of Pediatrics, Univ. of Cincinnati, College of Medicine.* (6, 1949)

Cooperman, Jack M., Ph.D. New York Med. College, Flower and Fifth Ave. Hosps., New York City 29. *Asst. Prof. of Pediatrics.* (3, 1952)

Copeland, D. Eugene, Ph.D. 8705 Susanna Lane, Chevy Chase 15, Md. *Exec. Sec. Morphology and Genetics, NIH.* (1, 1951)

Copenhaver, John H., Ph.D. Dartmouth College, Hanover, N. H. *Asst. Prof. of Zoology.* (2, 1957)

Copley, Alfred Lewin, M.D. Charing Cross Hosp., Med. Research Labs., 8, Exchange Ct., Strand, London W.C. 2, England. *Dir. of Exptl. Vascular Research.* (1, 1944)

Copp, Douglas Harold, M.D., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B.C., Canada. *Prof. and Head of Dept.* (1, 1951)

Corcoran, Arthur Curtis, C.M., M.D. Cleveland Clinic Foundation, Cleveland 6, Ohio. *Asst. Dir., Research Div.* (1, 1940; 3, 1955)

Cordy, Donald R., D.V.M., Ph.D. Univ. of California School of Veterinary Medicine, Davis. *Assoc. Prof. of Veterinary Pathology; Assoc. Pathologist.* (4, 1954)

Corey, Edward Lyman, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (1, 1931)

Cori, Carl F., M.D. Washington Univ. School of Medicine, Kingshighway and Euclid Ave., St. Louis 10, Mo. *Prof. of Biochemistry.* (2, 1925)

Corley, Ralph Conner, Ph.D. Purdue Univ., Dept. of Chemistry, Lafayette, Ind. *Prof. of Biochemistry.* (2, 1927)

Cornatzer, W. E., Ph.D., M.D. Univ. of North Dakota Med. School, Dept. of Biochemistry, Grand Forks. *Prof. and Head of Dept.* (2, 1950)

Cornman, Ivor, Ph.D. Hazleton Labs., Box 333,

Falls Church, Va. *Head, Cellular Physiology Dept.* (1, 1956)

Corper, Harry J., M.D., Ph.D. 1295 Clermont St., Denver 20, Colo. *Dir. Emeritus of Research, Natl. Jewish Hospital and Univ. of Colorado School of Medicine.* (2R, 1912)

Corson, Samuel A., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Assoc. Prof. of Physiology and Pharmacology.* (1, 1943)

Cotten, Marion deVeaux, Ph.D. Emory Univ. School of Medicine, Dept. of Pharmacology, Emory University, Ga. (3, 1953)

Cotts, Gerhard K., M.D., The Dominion Arms, Arlington 4, Va. (3, 1937)

Co Tui, Frank W., M.D. Creedmoor Inst., Queens Village 27, N. Y. *Assoc. Research Scientist and Head, Dept. of Physiology.* (3, 1931)

Cotzias, George C., M.D. Brookhaven Natl. Lab., Dept. of Medicine, Upton, N. Y. *Head, Physiology Div.* (4, 1954)

Couch, James Russell, Ph.D. Texas A & M College, College Station. *Prof., Depts. of Poultry Science and Biochemistry and Nutrition.* (2, 1953; 5, 1950)

Coulson, E. Jack, Ph.D. USDA, Agric. Research Service, Washington 25, D. C. *Biochemist, Eastern Utilization Research and Development Div.* (6, 1955)

Coulson, Roland A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Biochemistry, New Orleans 12. *Professor.* (2, 1954)

Cournand, Andre Frederic, M.D. Chest Service, Bellevue Hospital, C. D. Building, 1st Ave. at 28th St., New York City. *Prof. of Medicine, College of Physicians and Surgeons, Columbia Univ.* (1, 1944)

Covino, Benjamin Gene, Ph.D. Tufts Univ. Medical School, Dept. of Pharmacology, Boston, Mass. *Asst. Prof.* (1, 1957)

Cowen, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Neuropathology.* (4, 1951)

Cowgill, George Raymond, Ph.D. Yale Univ., Nutrition Lab., 333 Cedar St., New Haven 11, Conn. *Prof. of Nutrition, Dept. of Biochemistry.* (1R, 1923; 2, 1922; 5, 1933)

Cox, Alvin J., Jr., M.D. Stanford Univ. School of Medicine, 2398 Sacramento St., San Francisco 15, Calif. *Prof. of Pathology.* (4, 1949)

Cox, Gerald J., Ph.D. Univ. of Pittsburgh School of Dentistry, Pittsburgh 13, Pa. *Prof. of Dental Research.* (2, 1930; 5, 1935)

Cox, Herald R., Sc.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Dir., Virus Research.* (6, 1946)

Cox, Warren M., Jr., Ph.D. Mead Johnson & Co., Evansville, Ind. *Tech. Dir. of Labs.* (2, 1935; 5, 1945)

Craig, Francis Northrop, Ph.D. Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Applied Physiology Br.* (1, 1946)

Craig, John M., M.D. Harvard Med. School, Boston 15, Mass. *Asst. Prof. of Pathology.* (4, 1955)

Craig, L. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member and Professor.* (2, 1938)

Crampton, Charles F., Ph.D. Univ. of Florida College of Medicine, Dept. of Pathology, Gainesville. *Asst. Prof.* (2, 1955)

Crampton, E. W., Ph.D., Macdonald College Post Office, Quebec, Canada. *Prof. and Chairman, Dept. of Nutrition.* (5, 1940)

Crandall, Dana I., Ph.D. Univ. of Cincinnati, College of Medicine, Cincinnati 19, Ohio. *Assoc. Prof. of Biological Chemistry.* (2, 1951)

Crandall, Lathan A., Jr., M.D., Ph.D. Miles Labs., Inc., Elkhart, Ind. *Dir., Miles-Ames Research Labs.* (1, 1930)

Crane, Frederick L., Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison. *Asst. Prof.* (2, 1957)

Crane, Robert K., Ph.D. Washington Univ. Med. School, Dept. of Biological Chemistry, St. Louis 10, Mo. *Assoc. Prof. of Biochemistry.* (2, 1953)

Cranefield, Paul F., Jr., Ph.D. State Univ. of New York, College of Medicine at New York, 450 Clarkson Ave., Brooklyn 3. *Asst. Prof. of Physiology.* (1, 1956)

Cranston, Elizabeth M., Ph.D. Univ. of Minnesota Med. School, Dept. of Pharmacology, Minneapolis 14. *Asst. Prof.* (3, 1946)

Cravens, W. W., Ph.D. McMillen Feed Mills, Decatur, Ind. *Dir. of Feed Research and Nutrition.* (5, 1947)

Craver, Bradford N., Ph.D., M.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir. of Pharmacology.* (3, 1946)

Crawford, Madeleine Field, Ph.D. 9 High Rock St., Needham, Mass. *Pine Manor Jr. College, Wellesley, Mass.* (1, 1933)

Crescitelli, Frederick, Ph.D. Univ. of California, Dept. of Zoology, Los Angeles. *Professor.* (1, 1946)

Cretcher, Leonard H., Ph.D. 144 N. Dithridge St., Pittsburgh 13, Pa. (2R, 1930)

Crider, Joseph O., M.D. 504 E. Harding Ave., Greenwood, Miss. *Prof. of Physiology Emeritus, Jefferson Med. College.* (1R, 1935)

Criep, Leo H., M.D. The Bigelow, Pittsburgh 19, Pa. *Assoc. Prof. of Medicine, Univ. of Pittsburgh School of Medicine.* (6, 1951)

Crisler, George R., Ph.D., M.D. The New England Bldg., Winter Park, Fla. (1, 1930)

Crismon, Jefferson Martineau, M.D. Stanford Univ., Stanford, Calif. *Prof. and Executive of Dept. of Physiology.* (1, 1944)

Crittenden, Phoebe J., Ph.D. Goucher College, Dept. of Physiology and Bacteriology, Towson

4, Md. *Prof. and Chairman of Dept. of Physiology and Bacteriology.* (**1,** 1937; **3,** 1937)

Cromartie, William J., M.D. Univ. of North Carolina, School of Medicine, Dept. of Bacteriology, Chapel Hill. *Assoc. Prof. of Bacteriology and Medicine.* (**4,** 1951)

Cronheim, Georg E., Ph.D. Riker Labs., Inc., P.O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Dir., Biological Sciences* (**3,** 1951)

Cronkite, Eugene P., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Head, Pathology Div.* (**1,** 1954)

Crumpton, Charles W., M.D. Univ. of Wisconsin Med. School, Madison 6. *Assoc. Prof. of Medicine; Dir., Cardiovascular Research Lab.* (**3,** 1952)

Csaky, Tihamer Z., M.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. of Pharmacology.* (**1,** 1956; **3,** 1952)

Csonka, F. A., Ph.D. U. S. Dept. of Agriculture, Human Nutrition Research Branch, Washington 25, D. C. *Sr. Chemist.* (**2,** 1924)

Cullen, Stuart C., M.D. Univ. Hospitals, Iowa City, Iowa. *Prof. of Surgery; Chairman, Div. of Anesthesia.* (**3,** 1944)

Culler, Elmer A., Ph.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Psychology and Dir. of Lab.* (**1R,** 1936)

Cullumbine, Harry, M.D. Univ. of Toronto, Toronto 5, Canada. *Prof. and Head, Dept. of Pharmacology.* (**3,** 1957)

Cunha, Tony Joseph, Ph.D. Univ. of Florida, Dept. of Animal Husbandry and Nutrition, Gainesville. *Head of Dept.* (**5,** 1950)

Cunningham, Lew S., M.D. Marquette Univ. School of Medicine, Milwaukee 3, Wis. *Asst. Prof. of Anatomy.* (**2,** 1957)

Cunningham, Raymond W., Ph.D. American Cyanamid Co., Fine Chemicals Div., New York 20, N. Y. *Tech. Dir.* (**3,** 1941)

Cunningham, Robert Sydney, M.D., Sc.D. 1102 W. 43rd St., Richmond 25, Va. (**1R,** 1923)

Cureton, Thomas Kirk, Jr., Ph.D. Univ. of Illinois, School of Physical Education, Urbana. *Prof. of Physical Education; Dir., Physical Fitness Research Lab.* (**1,** 1946)

Curnen, Edward C., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pediatrics, Chapel Hill. *Prof. and Chairman of Dept.* (**6,** 1941)

Curran, George L., M.D. Univ. of Kansas Med. Ctr., Dept. of Medicine, Kansas City 12. *Assoc. Prof. of Medicine; Established Investigator, Amer. Heart Assn.* (**2,** 1956)

Curtis, George Morris, Ph.D., M.D., Sc.D. 379 Westland Ave., Columbus, Ohio. *Prof. Emeritus of Surgery, Ohio State Univ.* (**4R,** 1933)

Curtis, Howard J., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biologist and Chairman, Biology Dept.* (**1,** 1940)

Curtis, Jack M., Ph.D. Food and Drug Admin., Div. of Pharmacology, Dept. of Health, Education and Welfare, Washington 25, D. C. *Pharmacologist; Asst. Div. Chief.* (**2,** 1951)

Cushing, John E., Jr., Ph.D. Univ. of California, Santa Barbara College, Goleta, Santa Barbara County. *Assoc. Prof. of Bacteriology.* (**6,** 1952)

Cutting, Windsor C., M.D. Stanford Univ. School of Medicine, Stanford, Calif. *Prof. of Pharmacology.* (**3,** 1939)

Da Costa, Esther, Ph.D. Chicago Teachers College, 6800 Stewart, Chicago 21, Ill. *Physiologist.* (**1,** 1953; **5,** 1951)

Daft, Floyd Shelton, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda, Md. *Director.* (**2,** 1949; **5,** 1941)

Daggs, Ray Gilbert, Ph.D. Amer. Physiological Soc., 9650 Wisconsin Ave., Washington 14, D. C. *Exec. Sec.-Treas.* (**1,** 1935; **5,** 1933)

Dahl, Lewis Kitchener, M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Scientist and Head, Research Med. Service.* (**4,** 1953)

Dale, Sir Henry H., M.D., F.R.S. The Wellcome Trust, 52 Queen Anne St., London W. 1, England. (**3H,** 1926)

Dale, Homer Eldon, D.V.M., Ph.D. Univ. of Missouri, Dept. of Veterinary Physiology, Columbia. *Professor.* (**1,** 1956)

Dalldorf, Gilbert, M.D. New York State Dept. of Health, Albany. *Dir., Div. of Labs. and Research.* (**4,** 1947; **6,** 1952)

Dalton, Albert J., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Cytologist.* (**4,** 1942)

Dam, Henrik, Ph.D. Polytechnic Inst., Dept. of Biochemistry and Nutrition, Øster Voldgade 10 L, Copenhagen K, Denmark. *Prof. and Dir. of Dept.* (**2,** 1944; **5,** 1943)

D'Amour, Fred E., Ph.D. Univ. of Denver, Denver 10, Colo. *Chairman, Dept. of Zoology.* (**1,** 1934)

D'Amour, Marie C., Ph.D., M.D. Olive View Sanatorium, Olive View, Calif. (**1,** 1934)

Dandliker, Walter B., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1955)

Danes, B. Shannon, Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Research Asst. Prof.* (**1,** 1956)

D'Angelo, Savino A., Ph.D. Jefferson Med. College, Dept. of Anatomy, 307 S. 11th St., Philadelphia, Pa. *Assoc. Prof.* (**1,** 1947)

Daniel, Louise J., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1949; **5,** 1956)

Daniels, Amy L., Ph.D. 6 Rowland Ct., Iowa City, Iowa. (**2R,** 1919; **5R,** 1933)

Daniels, Joan B., S. B. Massachusetts Dept. of Public Health, 96 York Terrace, Brookline.

Asst. Bacteriologist; Lecturer on Virology, Simmons College. (6, 1957)

Danielson, Irvin S., Ph.D. Lederle Labs., American Cyanamid Co., Pearl River, N. Y. *Mgr., Biological Production.* (2, 1937)

Danowski, T. S., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Renziehausen Prof. of Research Medicine.* (1, 1947)

Darby, William J., M.D., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Prof. of Biochemistry; Dir., Div. of Nutrition.* (2, 1949; 5, 1945)

Darling, Robert Croly, M.D. 157 Glenwood Ave., Leonia, N. J. *Prof. of Physical Medicine and Rehabilitation, Columbia Univ. College of Physicians and Surgeons.* (1, 1944)

Darrow, Chester W., Ph.D. Inst. for Juvenile Research, 907 S. Wolcott Ave., Chicago, Ill. *Psychophysiologist; Assoc. Prof. of Physiology, Univ. of Illinois College of Medicine.* (1, 1937)

Darrow, Daniel Cady, M.D. Univ. of Kansas Med. Center, Dept. of Pediatrics, Kansas City. *Professor.* (2, 1936)

Dasler, Waldemar, Ph.D. Chicago Med. School, Chicago 12, Ill. *Assoc. Prof. of Biochemistry.* (5, 1957)

Daubert, B. F., Ph.D. General Foods Corp., Research Ctr., 555 So. Broadway, Tarrytown, N. Y. *Technical Dir., Chemical Research Area.* (2, 1947)

Davenport, Fred M., M.D., Sc.Med.D. Univ. of Michigan, School of Public Health, Ann Arbor. *Assoc. Prof. Epidemiology and Medicine.* (6, 1950)

Davenport, Horace Willard, Ph.D. Univ. of Michigan, Dept. of Physiology, Ann Arbor. *Prof. and Head of Dept.* (1, 1942)

Davenport, Virginia D., Ph.D. 1918 Day St., Ann Arbor, Mich. (1, 1950)

Davey, Bessie L., Ph.D. Univ. of Alabama, School of Home Economics, University. *Prof. of Home Economics; Head, Dept. of Foods and Nutrition.* (5, 1957)

David, Norman Austin, M.D. Univ. of Oregon Med. School, Portland 1. *Prof. of Pharmacology.* (3, 1934)

Davidow, Bernard, Ph.D. New Drug Inst., 130 E. 59 St., New York City 22. *Dir. of Pharmacology.* (3, 1953)

Davidsohn, Israel, M.D. Mt. Sinai Hosp., Dept. of Pathology, Chicago 8, Ill. *Dir. of Research, Med. Research Fndn.; Prof. and Chairman of Dept. of Pathology, Chicago Med. School.* (4, 1939; 6, 1929)

Davidson, Charles S., M.D. Boston City Hospital, Thorndike Memorial Lab., Boston 18, Mass. *Assoc. Prof. of Medicine, Harvard Med. School; Assoc. Dir., 2nd and 4th Med. Services, Boston City Hospital.* (5, 1949)

Davies, Dean F., Ph.D., M.D. American Cancer Soc., 521 W. 57th St., New York City 19. *Administrator for Lung Cancer Research.* (1, 1951)

Davies, Philip W., Ph.D. Johns Hopkins Univ., Dept. of Physiology, Baltimore 5, Md. *Assoc. Prof. of Physiology and Biophysics.* (1, 1948)

Davies, Robert E., Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Biochemistry.* (2, 1957)

Davis, A. K., Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Asst. Head, Biophysics Branch, Biomedical Div.* (1, 1956)

Davis, Bernard D., M.D. Harvard Med. School, Boston 15, Mass. *Prof. of Bacteriology and Immunology; Chairman of Dept.* (2, 1953; 3, 1955)

Davis, Dorland J., M.D., Dr.P.H. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Assoc. Dir. in Charge of Research.* (6, 1952)

Davis, George Kelso, Ph.D. Nutrition Lab., Animal Husbandry and Nutrition Dept., Agricultural Exper. Station, Gainesville, Fla. *Prof. of Nutrition, Univ. of Florida, Florida Agricultural Exper. Station.* (2, 1956; 5, 1944)

Davis, Hallowell, M.D. Central Inst. for the Deaf, 818 S. Kingshighway, St. Louis 10, Mo. *Dir. of Research.* (1, 1925)

Davis, Harry A., M.D. College of Med. Evangelists, Dept. of Surgery, 2010 Wilshire Blvd., Los Angeles 57, Calif. *Clin. Prof. of Surgery.* (4, 1944)

Davis, James O., Ph.D., M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Investigator, Lab. of Kidney and Electrolyte Metab.* (1, 1954)

Davis, John Emerson, Ph.D. Univ. of Texas College of Pharmacy, Austin. *Prof. of Pharmacology.* (1, 1941; 3, 1941)

Davis, M. Edward, M.D. Chicago Lying-In Hosp., Chicago 37, Ill. *Joseph Bolivar de Lee Prof. and Chairman of Dept. of Obstetrics and Gynecology, Univ. of Chicago.* (3, 1950)

Davis, Neil C., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Clin. Science, Pittsburgh 13, Pa. *Assoc. Prof.* (2, 1957)

Davis, Oscar F., Ph.D. Loyola Univ., Stritch School of Medicine, Dept. of Pharmacology, Chicago 12, Ill. *Research Assoc.* (3, 1956)

Davison, Clarke, Ph.D. George Washington Univ., School of Medicine, Washington 5, D. C. *Asst. Prof. of Pharmacology.* (3, 1957)

Dawson, Charles R., Ph.D. Columbia Univ., Broadway and 116th St., New York City 27. *Prof. of Chemistry.* (2, 1946)

Dawson, James Robertson, Jr., M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Prof. of Pathology.* (4, 1940)

Dawson, Percy M., M.D. 107 E. Portola Ave., Los Altos, Calif. (**1R**, 1900)

Day, Harry G., Sc.D. Indiana Univ., Dept. of Chemistry, Bloomington. *Prof. and Chairman of Dept.* (**2**, 1948; **5**, 1940)

Day, Paul L., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Biochemistry; Asst. Dean of Graduate School.* (**2**, 1934; **5**, 1933)

De, N. N., M.B. Central Drug Research Inst., Chattar Manjil Palace, Lucknow, U.P., India. *Asst. Dir. of Pharmacology.* (**3**, 1948)

Dearborn, Earl H., Ph.D., M.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Head, Dept. of Pharmacological Research.* (**3**, 1946)

Deatherage, F. E., Ph.D. Ohio State Univ., Dept. of Agricultural Biochemistry, Columbus 10. *Prof. and Dept. Chairman; Prof., Animal Science, Ohio Agric. Exper. Sta.* (**2**, 1956)

de Beer, Edwin J., Ph.D. The Wellcome Research Labs., Tuckahoe, N. Y. *Assoc. Dir. of Research; Head, Dept. of Pharmacology.* (**3**, 1944)

de Bodo, Richard C., M.D. 550 First Ave., New York City. *Prof. of Pharmacology, New York Univ. College of Medicine.* (**1**, 1932; **3**, 1931)

De Boer, Benjamin, Ph.D. Univ. of North Dakota School of Medicine, Grand Forks. *Prof. of Physiology and Pharmacology.* (**1**, 1947; **3**, 1948)

DeBoer, Carl J., Ph.D. U.S.D.A. Plum Island Animal Disease Lab., Greenport, L. I., N. Y. *Sr. Scientist (Virology).* (**6**, 1951)

DeEds, Floyd, Ph.D. 344 Santa Ana Ave., San Francisco, Calif. *Principal Pharmacologist, Western Regional Research Lab., Albany, Calif.* (**2**, 1937; **3**, 1927)

de Gara, Paul F., M.D. 133 E. 58th St., New York City 22. *Assoc. Prof. of Clinical Pediatrics in Allergy, Cornell Univ. Med. College; Asst. Attending Pediatrician and Physician to Out-Patients, New York Hospital.* (**6**, 1941)

DeGraff, Arthur C., M.D. New York Univ. College of Medicine, New York City. *Prof. of Therapeutics.* (**1**, 1950; **3**, 1937)

de Gutierrez-Mahoney, C. G., M.D. St. Vincent's Hospital, New York City. *Dir., Neurological Div. and Neurosurgeon-in-Chief.* (**1**, 1940; **4**, 1941)

Deichmann, William B., Ph.D. Univ. of Miami, School of Medicine, Dept. of Pharmacology, Coral Gables, Fla. *Prof. and Chairman of Dept.* (**3**, 1941)

Dekker, Charles A., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley. *Assoc. Prof.* (**2**, 1956)

de la Huerga, Jesus, M.D. Northwestern Univ., Chicago 12, Ill. *Asst. in Pathology; Research Assoc., Hektoen Inst.* (**4**, 1956)

Delgado, Jose M. R., M.D. Yale Univ., School of Medicine, New Haven, Conn. *Assoc. Prof. of Neurophysiology.* (**1**, 1952)

del Greco, Francesco, M.D. Passavant Mem. Hosp., Chicago 11, Ill. (**1**, 1957)

Delory, George Edward, Ph.D. (Lond.). Univ. of Manitoba Med. College, Biochemistry Dept., Bannatyne and Emily, Winnipeg, Canada. *Assoc. Prof.* (**2R**, 1951)

del Pozo, E. C., M.D. Francisco Sosa #151, Coyoacan, D. F. 21, Mexico. *Prof. of Physiology, Univ. Nacional Autonoma.* (**1**, 1943)

Delwiche, C. C., Ph.D. Univ. of California, Kearney Fndn., Berkeley. *Assoc. Prof.* (**2**, 1955)

Delwiche, E. A., Ph.D. Cornell Univ. College of Agriculture, Ithaca, N. Y. *Prof. of Bacteriology.* (**2**, 1956)

De Meio, Romano Humberto, Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof. of Biochemistry.* (**2**, 1951)

DeMoss, Ralph D., Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. *Assoc. Prof.* (**2**, 1956)

Dempsey, Edward W., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Anatomy.* (**1**, 1940)

Denison, Adam B., Jr., M.D. Bowman Gray School of Medicine, Dept. of Physiology, Winston-Salem, N. C. *Asst. Prof.* (**1**, 1954)

Dennis, Emery W., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Dir., Biology Div.* (**3**, 1952; **6**, 1952)

Denny, Floyd W., Jr., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Asst. Prof. of Preventive Medicine and Pediatrics.* (**6**, 1957)

Denslow, J. S., D.O. Kirksville College of Osteopathy and Surgery, Still Memorial Research Trust, Kirksville, Mo. *Professor; Dir. Research Affairs.* (**1**, 1949)

Denstedt, Orville F., Ph.D. McGill Univ., Dept. of Biochemistry, Montreal, Que., Canada. *Assoc. Prof.* (**2**, 1948)

Denton, Charles A., B.S. U. S. Dept. of Agriculture, Animal and Poultry Husbandry Research Branch, Beltsville, Md. *Chemist.* (**5**, 1954)

Derbyshire, Arthur J., Ph.D. Harper Hospital, Detroit, Mich. *Head of EEG Dept.; Chairman, Research Planning Team, Michigan Epilepsy Ctr.* (**1**, 1939)

de Savitsch, Eugene, M.D. 9, More's Gardens, Cheyne Walk, London S.W. 3, England. *Surgeon (R) USPHS.* (**4**, 1934)

DesMarais, André, Ph.D. Univ. of Ottawa, Dept. of Biology, Ottawa, Canada. *Assoc. Prof. of Biology.* (**1**, 1955)

Dethier, Vincent G., Ph.D. Johns Hopkins Univ., Dept. of Biology, Baltimore 18, Md. *Professor.* (**1**, 1950)

Dettwiler, Herman A., Ph.D. Eli Lilly and Co.,

Indianapolis, Ind. *Dir., Biological Production Div.* (**6**, 1946)

DeTurk, William E., Ph.D., M.D. Box 3105, Duke Hospital, Durham, N. C. *Assoc. Prof. of Pharmacology, Duke Univ.* (**3**, 1953)

Deulofeu, Venancio, D. Chem. Casilla Correo 2539, Buenos Aires, Argentina. *Prof. of Organic Chemistry, Univ. of Buenos Aires.* (**2**, 1942)

Deutsch, Harold F., Ph.D. Univ. of Wisconsin. Dept. of Physiological Chemistry, Madison 6. *Professor.* (**2**, 1948)

Dewey, Virginia C., Ph.D. Amherst College, Biological Lab., Amherst, Mass. *Research Assoc., Dept. of Biology.* (**2**, 1949)

Dews, Peter B., M.B., Ch.B., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Pharmacology.* (**3**, 1953)

Dexter, Lewis, M.D. Peter Bent Brigham Hospital, 721 Huntington Ave., Boston, Mass. *Asst. Prof. of Medicine, Harvard Med. School.* (**1**, 1951)

Dey, Frederick L., Ph.D., M.D., 15 Smith Ave., Niantic, Conn. (**1**, 1945)

Deyrup, Ingrith J., Ph.D. Barnard College, Columbia Univ., Dept. of Zoology, New York City 27. *Assoc. Prof.* (**1**, 1949)

Dickison, H. L., Ph.D. Bristol Labs. Inc., Bldg. 6, Syracuse 1, N. Y. *Dir., Pharmacological Research and Asst. Dir. Research.* (**3**, 1946)

Dickman, Sherman R., Ph.D. Univ. of Utah, 412 Medical Bldg., Salt Lake City. *Assoc. Prof. of Biochemistry.* (**2**, 1951)

Dienes, Louis, M.D. Massachusetts General Hospital, Boston. *Consultant Bacteriologist.* (**6**, 1924)

Diermeier, Harold F., Ph.D. State Univ. of New York Med. College, Syracuse 10. *Asst. Prof. of Pharmacology.* (**3**, 1953)

Dietrich, LaRoy S., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Asst. Prof. of Biochemistry.* (**2**, 1955)

Dill, David Bruce, Ph.D. USA Chemical Warfare Labs., Army Chemical Center, Md. *Dep. Dir., Med. Research.* (**1**, 1941; **2**, 1927)

Dille, James M., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer, Dept. of Pharmacology.* (**3**, 1939)

Dillon, Robert T., Ph.D. G.D. Searle and Co., Box 5110, Chicago 80, Ill. *Head, Analytical Div.* (**2**, 1934)

Di Luzio, Nicholas R., Ph.D. Univ. of Tennessee Med. Units, Div. of Physiology, Memphis 3. *Asst. Prof.* (**1**, 1956)

Dingle, John H., Sc.D., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Prof. of Preventive Medicine; Assoc. Prof. of Medicine.* (**6**, 1941)

Dinning, James S., Ph.D. Univ. of Arkansas School of Medicine, Dept. of Biochemistry, Little Rock. *Assoc. Prof.* (**5**, 1953)

Di Palma, Joseph R., M.D. Hahnemann Med. College, Dept. of Pharmacology, 230 N. Broad St., Philadelphia 2, Pa. *Prof. and Head of Dept.* (**1**, 1943; **3**, 1951).

DiSalvo, Nicholas A., D.D.S., Ph.D. Columbia Univ. School of Dental and Oral Surgery, New York City 32. *Assoc. Prof. of Dentistry and Dir., Div. of Orthodontics.* (**1**, 1957)

Dische, Zacharias, M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Ophthalmology, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2**, 1944)

Dittmer, Karl, Ph.D. Florida State Univ., Dept. of Chemistry, Tallahassee. *Head of Dept.* (**2**, 1950)

Dixon, Frank James, Jr., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Professor.* (**4**, 1951; **6**, 1950)

Dixon, Harold M., M.D. Veterans Admin. Regional Office, 415 Pine St., St. Louis 2, Mo. (**4**, 1936)

Doan, Charles A., M.D. Ohio State Univ. College of Medicine, Columbus. *Dean; Dir., Med. Research; Prof. of Medicine.* (**4**, 1928)

Dobson, Ernest L., Ph.D. 15 Canyon Rd., Berkeley 4, Calif. *Physiologist, Radiation Lab.; Lecturer in Physiology, Univ. of California.* (**1**, 1954)

Dochez, A. Raymond, M.D. 1 W. 54 St., New York City 19. (**4R**, 1917; **6R**, 1922)

Doctor, V. M., Ph.D. Texas Med. Ctr., Houston 25. *Asst. Biochemist, Univ. of Texas, M. D. Anderson Hosp.* (**2**, 1957)

Dodd, Matthew C., Ph.D. Ohio State Univ., Dept. of Bacteriology, Columbus 10. *Prof. of Bacteriology and Immunology.* (**6**, 1950)

Dodds, Mary L., Ph.D. Pennsylvania State Univ., College of Home Economics, University Park. *Prof., Foods and Nutrition.* (**5**, 1948)

Dohan, F. Curtis, M.D. 80 Princeton Rd., Bala-Cynwyd, Pa. *Asst. Prof. of Clin. Medicine, Univ. of Pennsylvania.* (**1**, 1941)

Doherty, David G., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (**2**, 1953)

Doisy, Edward A., Sr., Ph.D. St. Louis Univ. School of Medicine, St. Louis 4, Mo. *Prof. of Biological Chemistry and Dir. of Dept.* (**2**, 1920)

Doisy, Edward A., Jr., M.D. St. Louis Univ. School of Medicine, Dept. of Internal Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof.* (**2**, 1951)

Dole, Vincent P., M.D. Rockefeller Inst. for Med. Research, New York City 21. *Member.* (**1**, 1955)

Dolin, M. I., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2**, 1957)

Dolman, C. E., M.B., D.P.H., Ph.D. Univ. of British Columbia, Vancouver, B. C., Canada. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**6,** 1947)

Dominguez, Rafael, M.D. St. Luke's Hospital, Cleveland 4, Ohio. *Dir., Div. Pathology.* (**1,** 1935)

Domino, Edward F., M.D., Univ. of Michigan Med. School, Dept. of Pharmacology, Ann Arbor. *Asst. Prof.* (**3,** 1953)

Donahue, D. D., D.Sc. 4228 Military Rd., N.W., Washington 15, D. C. (**3,** 1941)

Donaldson, David M., Ph.D. Brigham Young Univ., Dept. of Bacteriology, Provo, Utah. *Asst. Prof.* (**6,** 1956)

Dontas, Anastasius S., M.D. Evangelismos Hosp., Athens, Greece. *Associate.* (**3,** 1956)

Dooley, Marion S., M.D. State Univ. of New York Med. Center at Syracuse, Syracuse, N. Y. *Prof. and Chairman of Pharmacology Emeritus; Hon. Member Staff, Univ. Hosp. Good Shepherd.* (**3R,** 1923)

Dorfman, Albert, PhD., M.D. Univ. of Chicago, Dept. of Pediatrics, 920 E. 59th St., Chicago, Ill. *Professor.* (**2,** 1948)

Dorfman, Ralph I., Ph.D. Worcester Fndn. for Experimental Biology, 222 Maple Ave., Shrewsbury, Mass. *Dir. of Labs.; Prof. of Biochemistry, Boston Univ.* (**2,** 1940)

Dotti, Louis Basil, Ph.D. St. Luke's Hospital, Amsterdam Ave. and 113th St., New York City 25. *Asst. Dir. of Labs.* (**1,** 1937)

Doty, J. Roy, Ph.D. American Dental Assn., 222 E. Superior St., Chicago, Ill. *Secretary, Council on Dental Therapeutics.* (**2,** 1941)

Doty, Paul M., Ph.D. Harvard Univ., Dept. of Chemistry, Cambridge 38, Mass. *Professor.* (**2,** 1957)

Doty, Robert W., Ph.D. Univ. of Michigan, Dept. of Physiology, Ann Arbor. *Asst. Prof.* (**1,** 1951)

Doudoroff, Michael, Ph.D. Univ. of California, Dept. of Bacteriology, 3517 Life Sciences Bldg., Berkeley 4. *Prof. of Bacteriology.* (**2,** 1946)

Dougherty, Robert W., D.V.M., M.S. New York State Veterinary College, Cornell Univ., Ithaca, N. Y. *Prof. of Veterinary Physiology.* (**1,** 1951)

Dougherty, Thomas F., Ph.D. Univ. of Utah School of Medicine, Dept. of Anatomy, Salt Lake City. *Prof. and Chairman of Dept.* (**1,** 1950)

Douglas, William W., M.D. Albert Einstein College of Medicine, Dept. of Pharmacology, New York City 61. *Assoc. Prof.* (**1,** 1957; **3,** 1956)

Doull, John, Ph.D., M.D. Univ. of Chicago, USAF Radiation Lab., Chicago 37, Ill. *Asst. Dir.; Asst. Prof., Dept. of Pharmacology.* (**3,** 1953)

Dounce, Alexander L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, 20, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Doupe, Joseph, M.D. Medical College, Dept. of Physiology and Med. Research, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Prof. and Chairman of Dept.* (**1,** 1949)

Dow, Philip, Ph.D. Medical College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1939)

Dow, Robert S., M.D., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Clin. Prof. of Medicine (Neurology).* (**1,** 1940)

Dowben, Robert Morris, M.D. Northwestern Univ., Dept. of Medicine, Chicago 11, Ill. (**1,** 1957).

Downs, Ardrey W., M.D., D.Sc. Univ. of Alberta, Edmonton, Alberta, Canada. *Emeritus Prof. of Physiology and Pharmacology.* (**1R,** 1917)

Downs, Cornelia M., Ph.D. Univ. of Kansas, Dept. of Bacteriology, Lawrence. *Professor.* (**6,** 1929)

Doyle, William Lewis, Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. *Professor.* (**1,** 1946)

Drabkin, David L., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1928; **5,** 1934)

Dragstedt, Carl A., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1928; **3,** 1932)

Dragstedt, Lester R., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Prof. and Chairman of Dept. of Surgery.* (**1,** 1920)

Draize, J. H., Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. *Chief, Skin Toxicity Br.* (**3,** 1940)

Drake, T. G. H., M.B. 88 Admiral Rd., Toronto 5, Canada. (**5,** 1936)

Draper, William B., M.Sc., M.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver 7. *Prof. of Pharmacology.* (**3,** 1938)

Dreisbach, Robert H., Ph.D., M.D. Stanford Univ. School of Medicine, Dept. of Pharmacology, Stanford, Calif. *Professor.* (**3,** 1945)

Drell, William, Ph.D. Univ. of California Med. Ctr., Dept. of Physiological Chemistry, Los Angeles 24. *Established Investigator, Am. Heart Assn.* (**2,** 1955)

Dresel, Peter E., Ph.D. Univ. of Manitoba Med. College, Dept. of Pharmacology, Winnipeg, Canada. *Asst. Prof.* (**3,** 1955)

Drew, Ruth, Ph.D. Brookhaven Natl. Lab., Upton, N. Y. *Assoc. Med. Bacteriologist.* (**6,** 1957)

Dreyer, Nicholas Bernard. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Physiology and Pharmacology.* (**3,** 1942)

Drill, Victor A., Ph.D., M.D. G. D. Searle & Co., Chicago 80, Ill. *Dir. of Biological Research; Lecturer in Pharmacology, Northwestern Univ. and Univ. of Illinois.* (**1,** 1943; **3,** 1946)

Dripps, Robert D., M.D. Univ. of Pennsylvania

School of Medicine, Philadelphia 4. *Prof. of Anesthesiology.* (**1**, 1947; **3**, 1945)

Driver, Robert L., Ph.D., M.D. 3054 Franklin St., San Francisco, Calif. (**1**, 1945; **3**, 1947)

Drury, Douglas R., M.D. Univ. of Southern California School of Medicine, Los Angeles. *Prof. and Chairman, Dept. of Physiology.* (**1**, 1932)

Dryden, Leslie P., B.S. U.S.D.A., Agricultural Research Service, Dairy Husbandry Research Br., Beltsville, Md. *Chemist.* (**5**, 1957)

Dubin, Harry E., Ph.D. 43 Calton Rd., New Rochelle, N. Y. (**2**, 1925)

Dubin, Isadore N., M.D. Woman's Med. College of Pennsylvania, Philadelphia 29. (**4**, 1947)

Dubnoff, Jacob W., Ph.D. 1201 E. California St., Pasadena 4, Calif. *Sr. Research Fellow, California Inst. of Technology.* (**2**, 1946)

Du Bois, Arthur B., M.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Assoc. Prof. of Physiology.* (**1**, 1954)

DuBois, Eugene F., M.D. 200 East End Ave., New York City 28. *Emeritus Prof. of Physiology, Cornell Univ. Med. School.* (**1R**, 1913; **3R**, 1921; **5R**, 1935)

Du Bois, Kenneth P., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Prof.; Dir., Air Force Radiation Lab.* (**3**, 1946)

Dubos, Rene J., Ph.D., D.Sc. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Head of Dept. of Bacteriology.* (**6**, 1938)

Duffy, Carl E., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Microbiology.* (**6**, 1951)

Dugal, L. Paul, Ph.D. Univ. of Ottawa Faculty of Science, Dept. of Biology, Ottawa, Canada. *Dir. and Prof. of Biology.* (**1**, 1947)

Duggan, Edward L., Ph.D. Univ. of California Med. School, Berkeley. *Assoc. Prof. of Physiological Chemistry.* (**2**, 1951)

Dukes, H. H., D.V.M., M.S. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Veterinary Physiology.* (**1**, 1934)

Dulaney, Anna D., Ph.D. Univ. of Tennessee, Inst. of Pathology, Memphis. *Assoc. Prof. of Bacteriology, Med. School.* (**6**, 1924)

Dumke, Paul Rudolph, M.D. Henry Ford Hospital, West Grand Blvd. and Hamilton Ave., Detroit 2, Mich. *Dir., Sec. of Anesthesiology.* (**3**, 1942)

Dumm, Mary E., Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Asst. Prof. of Medicine.* (**1**, 1950)

Dun, Fwu Tarng, Ph.D. Kirksville College of Osteopathy and Surgery, Dept. of Physiology, Kirksville, Mo. *Professor.* (**1**, 1955)

Dunham, Wolcott B., M.D. VA Med. Teaching Group, Kennedy Hospital, Memphis 15, Tenn. *Dir., Med. Research Lab.* (**6**, 1951)

Dunlap, Charles E., M.D. Tulane Univ. of Louisiana, 1430 Tulane Ave., New Orleans. *Prof. of Pathology.* (**4**, 1942)

Dunn, Arthur L., Ph.D. VA Hospital, Radioisotope Service, 4101 Woolworth Ave., Omaha 5, Nebr. *Principal Scientist.* (**1**, 1951)

Dunn, Floyd W., Ph.D. Abilene Christian College, Abilene, Texas. *Prof. of Chemistry.* (**2**, 1957)

Dunn, Max Shaw, Ph.D. Univ. of California, Los Angeles. *Prof. of Chemistry; Prof. of Physiological Chemistry.* (**2**, 1933)

Dunn, Thelma Brumfield, M.D. Natl. Cancer Inst., Bethesda, Md. *Med. Officer.* (**4**, 1945)

Durrum, Emmett L., M.D. Stanford University, Dept. of Med. Microbiology, Stanford, Calif. *Assoc. Clin. Prof.* (**2**, 1954)

Dury, Abraham, Ph.D. Bradford Hospital, Interstate Pkwy., Bradford, Pa. *Dir., Dorn Lab. for Med. Research.* (**1**, 1948)

Duryee, William R., Ph.D. George Washington Univ. School of Medicine, Dept. of Physiology, Washington 5, D. C. *Research Prof.* (**1**, 1952)

Dutcher, James D., Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dept. Head, Div. of Organic Chemistry.* (**2**, 1946)

Dutcher, R. Adams, D.Sc. 254 E. Hamilton Ave., University Park, Pa. *Prof. Emeritus, Dept. of Agricultural and Biological Chemistry, Pennsylvania State Univ.* (**2R**, 1920; **5R**, 1933)

Duval, Charles Warren, M.D. 377 Pine St., So. Weymouth, Mass. (**4R**, 1913)

du Vigneaud, Vincent, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Biochemistry.* (**2**, 1929; **5**, 1934)

Dworkin, Simon, D.D.S., M.D., M.Sc. McGill Univ., Biology Building, Montreal, Quebec, Canada. *Asst. Prof. in Physiology, Faculty of Medicine.* (**1**, 1931)

Dye, J. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Physiology.* (**1**, 1929)

Dye, Marie, Ph.D. Michigan State Univ., East Lansing. *Dean (Emeritus), College of Home Economics.* (**2R**, 1929; **5R**, 1933)

Dyer, Helen M., Ph.D. Natl. Cancer Inst., NIH, Besthesda, Md. *Biochemist.* (**2**, 1936; **5**, 1937)

Dziemian, Arthur J., Ph.D. Directorate of Med. Research, Chemical Warfare Labs., Army Chemical Center, Md. *Dep. Chief, Biophysics Div.* (**1**, 1948)

Dziewiatkowski, Dominic D., Ph.D. Rockefeller Inst. for Med. Research, Hospital, 66th St. and York Ave., New York City 21. *Assoc. Prof., Dept. of Biochemistry.* (**2**, 1950)

Eadie, George S., Ph.D. Duke Univ. School of

Medicine, Box 3709, Durham, N. C. *Prof. of Physiology and Pharmacology.* (**1**, 1929; **3**, 1940)

Eagle, Edward, Ph.D. Swift and Co., Research Labs., Chicago 9, Ill. *Head, Div. of Physiology and Toxicology.* (**1**, 1950; **3**, 1953)

Eagle, Harry, M.D. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Chief of Section on Exptl. Therapeutics.* (**2**, 1957; **3R**, 1946; **6**, 1953)

Eakin, Robert E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Prof. of Chemistry.* (**2**, 1948)

Earle, D. P., Jr., M.D., Med. Sc.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. (**1**, 1947)

Earle, Wilton R., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Head, Tissue Culture Section, Lab. of Biology.* (**4**, 1940)

Easton, Dexter M., Ph.D. Florida State Univ., Tallahassee. *Assoc. Prof. of Physiology.* (**1**, 1955)

Eaton, H. D., Ph.D. Univ. of Connecticut, Animal Industries Dept., Storrs. *Prof. of Animal Nutrition.* (**5**, 1957)

Eaton, Monroe D., M.D. Harvard Med. School, Boston, Mass. *Assoc. Prof. of Bacteriology and Immunology.* (**6**, 1937)

Eccles, John Carew, Ph.D. Australian Natl. Univ., Dept. of Physiology, Canberra, Australia. *Professor.* (**1H**, 1952)

Eckenhoff, James E., M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Prof. of Anesthesiology.* (**1**, 1948)

Ecker, E. E., Ph.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Immunology.* (**4**, 1925; **6**, 1947)

Eckert, Edward A., Ph.D. New York State Univ. Med. Ctr. at New York City, College of Medicine, Brooklyn 3, N. Y. *Assoc. Prof. in Microbiology.* (**4**, 1954; **6**, 1954)

Eckstein, Gustav, M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Physiology.* (**1**, 1948)

Eckstein, Henry C., Ph.D. Univ. of Michigan, 320 W. Med. Building, Ann Arbor. *Prof. of Biological Chemistry.* (**2**, 1925)

Eckstein, R. W., M.D. Western Reserve Univ., Depts. of Medicine and Physiology, Cleveland, Ohio. *Asst. Prof. of Medicine and Physiology.* (**1**, 1947)

Eddy, Bernice E., Ph.D. Natl. Insts. of Health, Div. of Biol. Standards, Bethesda 14, Md. *Sr. Bacteriologist.* (**6**, 1949)

Eddy, Nathan B., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Officer.* (**3**, 1929)

Eddy, Walter H., Ph.D. P.O. Box 6125, Southboro Sta., West Palm Beach, Fla. *Research Dir., Mangrove Products Co.* (**2R**, 1913; **5R**, 1933)

Edelberg, Robert, Ph.D. Baylor Univ. School of Medicine, Dept. of Psychiatry and Neurology, Houston, Texas. *Research Assoc.* (**1**, 1956)

Edelhoch, Harold, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. (**2**, 1957)

Edelman, Isidore S., M.D. Univ. of California School of Medicine, San Francisco 22. *Assoc. Prof. of Medicine.* (**1**, 1955)

Edelmann, Abraham, Ph.D. Nuclear Science and Engineering Corp., Pittsburgh 36, Pa. (**1**, 1948)

Eder, Howard A., M.D. Albert Einstein College of Medicine, New York City 61. *Assoc. Prof. of Medicine.* (**2**, 1956)

Ederstrom, H. E., Ph.D. Univ. of North Dakota, School of Medicine, Dept. of Physiology, Grand Forks. *Professor.* (**1**, 1949)

Edholm, O. G., M.B. Natl. Inst. for Med. Research, Hampstead, London, N.W. 3, England. *Head, Div. of Human Physiology.* (**1**, 1948)

Edsall, Geoffrey, M.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Center, Washington 12, D. C. *Dir., Communicable Disease Div.* (**6**, 1943)

Edsall, John Tileston, M.D. Biological Labs., Harvard Univ., 16 Divinity Ave., Cambridge 38, Mass. *Prof. of Biological Chemistry.* (**2**, 1931)

Edwards, Charles, Ph.D. Wilmer Inst., Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Physiological Optics.* (**1**, 1956)

Edwards, Dayton J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Secr. of the Faculty.* (**1R**, 1921)

Edwards, J. Graham, Ph.D. 1410 20th St., N.W., Washington, D. C. (**1**, 1932)

Edwards, Jesse E., M.D. Mayo Clinic, Rochester 4, Minn. *Prof. of Pathologic Anatomy, Mayo Foundation.* (**4**, 1941)

Edwards, Leslie E., Ph.D. Med. College of Virginia, Dept. of Physiology, Richmond. *Assoc. Prof.* (**1**, 1950)

Egdahl, Richard H., M.D. University Hosps., Minneapolis 14, Minn. *Research Assoc., Dept. of Surgery.* (**4**, 1957)

Eggerth, Arnold H., Ph.D. 406 St. John's Pl., Brooklyn, N. Y. *Prof. Emeritus of Microbiology and Immunology, State Univ. Med. Center at New York.* (**4**, 1925)

Ehrenstein, Maximilian R., Ph.D. Univ. of Pennsylvania Hospital, 806 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4. *Prof. of Biochemistry, Univ. of Pennsylvania School of Medicine.* (**2**, 1942)

Ehrich, William E., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Pathology, Grad. School of Medicine; Chief, Div. of Pathology, Philadelphia General Hospital.* (**4**, 1945)

Eichel, Herbert J., Ph.D. Hahnemann Med.

College, Philadelphia 2, Pa. *Asst. Prof., Div. of Biological Chemistry.* (2, 1957)

Eichelberger, Lillian, Ph.D. Univ. of Chicago, Dept. of Surgery, Chicago, Ill. *Assoc. Prof. of Biochemistry.* (2, 1937)

Eichna, Ludwig W., M.D. New York Univ. College of Medicine, Dept. of Medicine, 550 First Ave., New York City 16. *Prof. of Medicine; Visiting Physician, Bellevue Hosp.* (1, 1949)

Eichwald, Ernest J. Montana Deaconess Hosp., Great Falls. (4, 1953)

Eiler, John J., Ph.D. Univ. of California Med. Center, San Francisco 22. *Prof. of Biochemistry and Pharmaceutical Chemistry; Assoc. Dean, School of Pharmacy.* (2, 1948)

Eisen, Herman N., M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine (Dermatology).* (6, 1951)

Eisenberg, Frank, Jr., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Biochemist.* (2, 1955)

Eisenbrandt, Leslie L., Ph.D. Univ. of Kansas City, 5100 Rockhill Rd., Kansas City 10, Mo. *Prof. of Pharmacology; Dean, School of Pharmacy.* (3, 1951)

Eisenman, Anna J., Ph.D. U. S. Public Health Service Hospital, NIMH Addiction Research Ctr., Lexington, Ky. *Biological Chemist.* (2, 1930)

Eisenman, George, M.D. Eastern Pennsylvania Psychiatric Inst., Dept. of Basic Research, Philadelphia 29. *Sr. Staff Scientist.* (1, 1955)

Eklund, Carl M., M.D. Rocky Mountain Lab., Hamilton, Mont. *Investigator, Mosquito and Tick Transmitted Virus Diseases.* (4, 1957)

Elberg, Sanford S., Ph.D. Univ. of California, Dept. of Bacteriology, Berkeley 4. *Prof. and Chairman of Dept.* (6, 1948)

Elderfield, Robert C., Ph.D., D.Sc. Univ. of Michigan, 2020 Chemistry Bldg., Ann Arbor. *Prof. of Chemistry.* (2, 1934)

Eldred, Earl, M.D. Univ. of California, Dept. of Anatomy, Los Angeles. *Asst. Prof.* (1, 1956)

Elftman, Herbert, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assoc. Prof. of Anatomy.* (1, 1940)

Elion, Gertrude B., M.S. 270 Bronxville Rd., Bronxville 8, N. Y. *Sr. Biochemist, Wellcome Research Labs.* (2, 1952)

Eliot, Martha M., M.D. 21 Francis Ave., Cambridge 38, Mass. *Prof. of Maternal and Child Health, Harvard School of Public Health.* (5, 1933)

Elkinton, J. Russell, M.D. Univ. of Pennsylvania Hospital, Dept. of Medicine, Philadelphia. (1, 1947)

Ellenbogen, Eric, Ph.D. Univ. of Pittsburgh Grad. School of Public Health, Dept. of Biochemistry and Nutrition, Pittsburgh 13, Pa. *Assoc. Prof.* (2, 1956)

Ellinger, Friedrich P., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Chief Radiation Biologist; Head of Pharmacology Div.* (3, 1955)

Elliott, Henry W., Ph.D., M.D. Univ. of California Med. Ctr., San Francisco 22. *Asst. Prof. of Pharmacology and Anesthesia.* (3, 1948)

Elliott, Joseph Robert, Ph.D. The Rice Inst., Biology Dept., Houston, Tex. *Research Assoc.* (1, 1957)

Elliott, K. Allan C., Ph.D., Sc.D. Montreal Neurological Inst., 3801 Univ. St., Montreal, Que., Canada. *Assoc. Prof. of Exper. Neurology and Biochemistry.* (2, 1937)

Elliott, William H., Ph.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Biochemistry.* (2, 1952)

Ellis, C. H., Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. *Sr. Pharmacologist.* (1, 1947)

Ellis, Fred W., M.D., Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. of Pharmacology.* (3, 1945)

Ellis, John T., M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Pathology and of Pathology in Surgery.* (4, 1956)

Ellis, Lillian N., Ph.D. Rutgers Univ., Douglass College, New Brunswick, N. J. *Assoc. Prof. of Chemistry.* (5, 1940)

Ellis, N. R., M.S. U. S. Dept. of Agriculture, Agricultural Research Ctr., Beltsville, Md. *Assoc. Dir., Animal Husbandry Research Div.* (2, 1928; 5, 1933)

Ellis, Sydney, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Pharmacology and Chairman of Dept.* (3, 1947)

Ellison, Solon Arthur, D.D.S. Columbia Univ. College of Physicians and Surgeons, Dept. of Microbiology, New York City 32. *Associate.* (6, 1956)

Elmadjian, Fred, Ph.D. Box 57, Worcester, Mass. *Dir. of Labs., Worcester State Hosp.; Sr. Scientist, Worcester Foundation for Exptl. Biology.* (1, 1950)

Elson, David, Ph.D. Weizman Inst. of Science, Rehovot, Israel. (2, 1956)

Elvehjem, Conrad Arnold, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Professor.* (2, 1931; 5, 1933)

Elwell, Leonard H., Ph.D. Univ. of Michigan, Dept. of Physiology, Ann Arbor. *Asst. Prof.* (1, 1956)

Embree, Norris Dean, Ph.D. Distillation Products Industries, Rochester 3, N. Y. *Dir. of Tech. Operations.* (2, 1946)

Emerson, George A., Ph.D. Univ. of Texas, Med. Branch, Galveston. *Prof. of Pharmacology.* (3, 1935)

Emerson, Gladys A., Ph.D. Univ. of California,

Dept. of Home Economics, Los Angeles 24. *Chairman of Dept. and Prof. of Home Economics and Nutrition.* (5, 1942)

Emerson, Jack Drew, Ph.D. Univ. of Alabama Med. Ctr., Dept. of Physiology, Birmingham 3. *Assoc. Prof.* (1, 1957)

Emmart, Emily W., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Cytologist.* (3, 1947)

Enders, John F., Ph.D. Children's Med. Center, 300 Longwood Ave., Boston, Mass. *Chief, Research Div. of Infectious Diseases; Prof. of Bacteriology and Immunology at Children's Hosp., Harvard Med. School.* (6, 1936)

Endicott, Kenneth M., M.D. PHS, Natl. Insts. of Health, Bethesda 14, Md. *Chief, Cancer Chemotherapy Natl. Service Ctr.* (4, 1947)

Engel, Frank L., M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Medicine; Asst. Prof. of Physiology.* (1, 1947)

Engel, Lewis L., Ph.D. Massachusetts General Hospital, Boston 14. *Asst. Prof. of Biological Chemistry, Harvard Med. School (at the Mass. Gen. Hospital); Tutor in Biochemical Sciences, Harvard College.* (2, 1949)

Engel, Ruben W., Ph.D. Virginia Polytechnic Inst., Dept. of Biochemistry and Nutrition, Blacksburg. (5, 1948)

Engle, Earl Theron, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anatomy.* (1, 1930)

English, James, Jr., Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Assoc. Prof. of Chemistry.* (2, 1946)

Enright, John B., Ph.D. Univ. of California, School of Veterinary Medicine, Davis. *Assoc. Prof.* (6, 1948)

Entenman, Cecil, Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Head, Biochemistry Branch.* (1, 1953)

Eppright, Ercel S., Ph.D. Iowa State College, Dept. of Food and Nutrition, Ames. *Prof. and Head of Dept.* (5, 1954)

Epstein, Albert A., M.D. 3 E. 74th St., New York City 21. (2R, 1912)

Ercoli, N., M.D., Ph.D. Armour Labs., Kankakee, Ill. *Dir. of Pharmacology.* (3, 1947)

Erickson, Cyrus C., M.D. Univ. of Tennessee, Inst. of Pathology, Memphis 3. *Prof. of Pathology.* (4, 1941)

Erickson, John Otto, Ph.D. Veterans Admin. Center, Radioisotope Lab., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Biophysicist.* (6, 1946)

Erlanger, Bernard F., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Microbiology, New York City 32. *Asst. Prof.* (2, 1956)

Erlanger, Joseph, M.D., Sc.D. 5127 Waterman Blvd., St. Louis 8, Mo. *Prof. Emeritus of Physiology.* (1R, 1901)

Ershoff, Benjamin H., Ph.D. 9331 Venice Blvd., Culver City, Calif. *Dir., Western Biological Labs.; Visiting Prof., Dept. of Biochemistry and Nutrition, Univ. of Southern California.* (5, 1950)

Eschenbrenner, Allen B., M.D. PHS Communicable Disease Ctr., P. O. Box 185, Chamblee, Ga. (4, 1946)

Espe, Dwight L., Ph.D. USDA State Exper. Stations Div., Agric. Research Service, Washington 25, D. C. *Administrator.* (1, 1940)

Esplin, Don W., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City. *Research Instructor.* (3, 1957)

Essex, Hiram E., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiology Grad. School, Univ. of Minn. under the Mayo Fndn.* (1, 1932; 3, 1940)

Essig, Carl F., M.D. PHS Hosp., Lexington, Ky. *Sr. Surgeon, PHS.* (1, 1952)

Etsten, Benjamin E., M.D. New England Center Hosp., Harrison Ave. and Bennett St., Boston 11, Mass. *Anesthetist in Chief; Prof. of Anesthesia, Tufts Univ. School of Medicine.* (3, 1954)

Ettinger, G. H., M.D., C.M. Queen's Univ., Kingston, Ontario, Canada. *Prof. of Physiology; Asst. Dir., Div. of Med. Research, Natl. Research Council, Ottawa.* (1, 1943)

Evans, Charles A., M.D., Ph.D. Univ. of Washington, Dept. of Microbiology, Seattle 5. *Professor.* (6, 1952)

Evans, E. Edward, Ph.D. Univ. of Alabama, Med. Ctr., Dept. of Microbiology, Birmingham 3. *Assoc. Prof.* (6, 1955)

Evans, Earl Alison, Jr., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Prof. and Chairman of Dept.* (2, 1939)

Evans, F. Gaynor, Ph.D. Wayne State Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Assoc. Prof. of Anatomy.* (1, 1954)

Evans, Gerald T., M.D., Ph.D. Univ. of Minnesota Hospitals, Minneapolis. *Dir. of Clin. Labs.; Prof. of Medicine, Univ. of Minnesota.* (1, 1942)

Evans, Herbert M., M.D., D.Sc., LL.D. Univ. of California, Berkeley. *Prof. Emeritus of Anatomy and Dir. Emeritus of Inst. of Exper. Biology.* (1R, 1919)

Evans, John David, Ph.D. Temple Univ. School of Medicine, Philadelphia 40, Pa. *Assoc. Prof. of Physiology.* (1, 1952)

Evans, Robert John, Ph.D. Michigan State Univ., Dept. of Agricultural Chemistry, East Lansing. *Research Prof.* (5, 1951)

Evans, Titus C., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. and Head of Radiation Research Lab.* (1, 1949)

Evans, Virginia J., Sc.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Biologist (Cytology).* (4, 1957)

Eveleth, D. F., Ph.D., D.V.M. North Dakota Agricultural College, Fargo. *Prof. of Veterinary Science, North Dakota Agricultural Exper. Station.* (**2,** 1939)

Everett, Guy M., Ph.D. Abbott Labs., Dept. of Pharmacology, N. Chicago, Ill. *Group Leader, Neuropharmacology.* (**3,** 1950)

Everett, John W., Ph.D. Duke Hospital, Box 3209, Durham, N. C. *Prof. of Anatomy, Duke Univ. School of Medicine.* (**1,** 1951)

Everett, Mark R., Ph.D. Univ. of Oklahoma School of Medicine, 800 N. E. 13th St., Oklahoma City 4. *Dir., Univ. of Okla. Med. Ctr.; Dean, School of Medicine.* (**2,** 1929)

Everett, Newton B., Ph.D. Univ. of Washington School of Medicine, Dept. of Anatomy, Seattle 5. *Prof. and Admin. Officer.* (**1,** 1956)

Eversole, Wilburn J., M.Sc., Ph.D. Univ. of New Mexico, Dept. of Biology, Albuquerque. *Professor.* (**1,** 1950)

Everson, Gladys, Ph.D. Univ. of California, Dept. of Home Economics, Davis. *Prof. and Chairman.* (**5,** 1948)

Eyster, John A. English, M.D. Matlacha Sta., Ft. Myers, Fla. (**1R,** 1906; **3R,** 1908)

Fahey, John L., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Sr. Investigator, Metabolism Service.* (**1,** 1957)

Fahr, George, M.D. Univ. of Minnesota Med. School, Minneapolis. *Emeritus Prof. of Internal Medicine.* (**1R,** 1913; **3R,** 1940)

Failey, Crawford F., Ph.D. 416 S. 6th St., Terre Haute, Ind. (**2,** 1933)

Fairbairn, Donald, Ph.D. Macdonald College, Box 199, Quebec, Canada. *Assoc. Prof. of Parasitology, McGill Univ.* (**2,** 1953)

Fairley, James L., Ph.D. Michigan State Univ., Kedzie Chemical Lab., East Lansing. *Asst. Prof., Chemistry Dept.* (**2,** 1955)

Fales, Frank W., Ph.D. Emory Univ., Dept. of Biochemistry, Emory University, Ga. *Asst. Prof.* (**2,** 1957)

Falk, Carolyn R., B.A. 40 E. 66th St., New York City. *Sr. Bacteriologist (Retired) Bureau of Labs., Dept. of Health.* (**6,** 1943)

Falk, Gertrude, Ph.D. Univ. of Washington School of Medicine, Dept. of Pharmacology, Seattle 5. *Asst. Prof.* (**1,** 1956; **3,** 1957)

Famulener, Lemuel W., Ph.C., M.D. 605 Main St., Owego, N. Y. (**6,** 1920)

Farah, Alfred E., M.D. State Univ. of New York, Upstate Med. Center, Syracuse, N. Y. *Prof. of Pharmacology.* (**3,** 1948)

Farber, Emmanuel, M.D., Ph.D. Tulane Univ. School of Medicine, Depts. of Pathology and Biochemistry, New Orleans 12, La. *Assoc. Prof.* (**2,** 1956; **4,** 1953)

Farber, Saul J., M.D. New York Univ. College of Medicine, New York City 16. *Assoc. Prof. of Medicine.* (**1,** 1955)

Farber, Sidney, M.D. 300 Longwood Ave., Boston, Mass. *Prof. of Pathology, Harvard Med. School at Children's Hospital.* (**4,** 1934)

Farmer, Chester J., A. M. Wilson's Subdivision, Rt. 2, Cedar Lake, Ind. *Prof. Emeritus of Biochemistry, Northwestern Univ.* (**2R,** 1935)

Farner, Donald S., Ph.D. State College of Washington, Dept. of Zoology, Pullman. *Prof. of Zoophysiology.* (**1,** 1952)

Farnsworth, Edith B., M.D. 700 North Michigan, Chicago 11, Ill. *Asst. Prof. in Medicine, Northwestern Univ.* (**3,** 1952)

Farr, Lee E., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Med. Dir.; Physician-in-Chief, Brookhaven Natl. Lab. Hospital.* (**4,** 1941)

Farr, Richard S., M.D. Univ. of Pittsburgh, School of Medicine, Dept. of Anatomy, Pittsburgh 13, Pa. *Assoc. Prof.* (**4,** 1957; **6,** 1955)

Farrar, George E., Jr., M.D. Wyeth Labs., Box 8299, Philadelphia 1, Pa. *Med. Dir.* (**3,** 1947)

Farrell, Gordon L., M.D. Western Reserve Univ., Cleveland, Ohio. *Asst. Prof. of Physiology.* (**1,** 1956)

Farrell, James, Ph.D., M.D. 636 Church St., Evanston, Ill. (**1,** 1938)

Fassett, David W., M.D. Eastman Kodak Co., Lab. of Industrial Medicine, Kodak Park Works, Rochester, N. Y. *Dir. of Lab.* (**3,** 1942)

Faulconer, Albert, Jr., M.D. Mayo Clinic, Rochester, Minn. *Head, Section of Anesthesiology.* (**3,** 1950)

Fay, Marion, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Dean; Prof. of Physiological Chemistry.* (**2,** 1937)

Fazekas, Joseph F., M.D. D. C. General Hospital, Washington 3, D. C. *Chief of Staff.* (**3,** 1953)

Featherstone, Robert M., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Prof. of Pharmacology.* (**3,** 1947)

Feeney, Robert Earl, Ph.D. Univ. of Nebraska, College of Agriculture, Dept. of Biochemistry and Nutrition, Lincoln. *Professor and Chairman of Dept.* (**2,** 1952)

Feigelson, Philip, Ph.D. 99 Ft. Washington Ave., New York City 32. *Asst. Prof. of Biochemistry, Columbia Univ. College of Physicians and Surgeons.* (**2,** 1957)

Feigen, George A., Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Assoc. Prof.* (**1,** 1948)

Feinberg, Samuel M., M.D. Northwestern Univ. Med. School, Chicago 11, Ill. *Prof. of Medicine; Chief, Allergy Clinic.* (**6,** 1955)

Feinstein, Robert N., Ph.D. Argonne Natl. Lab., Lemont, Ill. (**2,** 1950)

Feldman, Harry A., M.D. State Univ. of New

York, Upstate Med. Ctr., Syracuse 10. *Prof. of Preventive Medicine.* (6, 1943)

Feldman, Joseph D., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh 13, Pa. *Prof. of Pathology.* (4, 1955)

Feldman, William H., D.V.M., D.Sc. Mayo Foundation, Rochester, Minn. *Prof., Grad. School Univ. of Minn.; Assoc., Sec. Pathology-Anatomy.* (4, 1934)

Feller, A. E., M.D. Univ. of Virginia School of Medicine, Dept. of Microbiology, Charlottesville. *Prof. and Chairman of Dept.* (6, 1943)

Feller, David D., Ph.D. Veterans Administration Hospital, 4435 Beacon Ave., Seattle 8, Wash. *Research Asst. Prof. of Medicine, Univ. of Washington School of Medicine; Asst. Chief and Prin. Scientist, Radioisotope Service.* (1, 1951)

Fellows, Edwin J., Ph.D. Smith, Kline and French Labs., Philadelphia 1, Pa. *Assoc. Dir. of Research; Assoc. Prof. of Pharmacology, Temple Univ. Med. School.* (3, 1939)

Felsenfeld, Oscar, U. S. Army Med. Res. Det. Far East, 406 Med. Gen. Lab., APO 343, San Francisco, Calif. *Lt. Col. MC, USAR, Chief.* (6, 1949)

Felts, James M., Ph.D. Tufts Univ. School of Medicine, Boston 11, Mass. *Asst. Prof. of Physiology.* (1, 1957)

Fenn, Wallace Osgood, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology and Chairman of Dept.* (1, 1924)

Fenning, Con, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Physiology.* (1, 1942)

Fenton, P. F., Ph.D. Brown Univ., Providence, R. I. *Prof. of Biology.* (1, 1947; 5, 1949)

Ferguson, Frank C., Jr., M.D. Albany Med. College, Dept. of Pharmacology, New Scotland Ave., Albany, N. Y. *Prof. and Chairman.* (3, 1951)

Ferguson, Frederick P., Ph.D. Univ. of Maryland School of Medicine, Dept. of Physiology, Baltimore 1. *Professor.* (1, 1949)

Ferguson, James Kenneth Wallace, M.D. 76 Kilbarry Rd., Toronto, Ont., Canada. *Prof. of Pharmacology and Dir., Connaught Med. Research Labs., Univ. of Toronto.* (1, 1933; 3, 1941)

Ferguson, John, Ph.D. Creighton Univ. School of Medicine, 302 No. 14th St., Omaha 2, Neb. *Assoc. Prof. of Physiology and Pharmacology.* (1, 1949)

Ferguson, John Howard, M.D., D.Sc. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Prof. of Physiology and Dept. Head.* (1, 1933)

Ferguson, L. Kraeer, M.D. 133 S. 36th St., Philadelphia 4, Pa. *Prof. of Surgery, Grad. School, Univ. of Pennsylvania and Woman's Med. College of Pennsylvania; Surgeon, Doctor's Hospital and Philadelphia General Hosp.* (4, 1935)

Ferguson, Lloyd C., D.V.M., Ph.D. Michigan State Univ., Dept. of Microbiology and Public Health, East Lansing. *Prof. and Head of Dept.* (6, 1953)

Ferguson, Ralph L., M.D. 420 E. 33rd St., Joplin, Mo. *Pathologist, St. John's Hospital.* (4, 1949)

Ferris, Benjamin G., Jr., M.D. Town House Road, Weston 93, Mass. *Asst. Prof. in Physiology, Harvard School of Public Health.* (1, 1951)

Ferry, John Douglass, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Chemistry.* (2, 1941)

Ferry, Ronald M., M.D. Barnes Hill Rd., Concord, Mass. *Assoc. Prof. Emeritus of Biochemistry, Harvard Univ.* (2, 1924)

Fetcher, Edwin S., Ph.D. Steamboat Springs, Colo. (1, 1944)

Fetter, Dorothy, Ph.D. Brooklyn College, Dept. of Home Economics, Brooklyn, N. Y. *Asst. Prof.* (1, 1944)

Fevold, Harry L., Ph.D. Baxter Labs., Inc., 6301 Lincoln Ave., Morton Grove, Ill. *Dir. of Research and Development.* (2, 1942)

Field, John, II, Ph.D. Univ. of California, School of Medicine, Dept. of Physiology, Los Angeles 24. *Prof. and Chairman of Dept.* (1, 1930)

Field, John B., M.D., Ph.D. Univ. of Southern California School of Medicine, Los Angeles 33. *Asst. Prof. of Clin. Medicine.* (2, 1952)

Filley, Giles F., M.D. Univ. of Colorado Med. Ctr., Denver 20. *Asst. Prof. of Medicine.* (1, 1957)

Finch, Clement A., M.D. 4516-47th Ave., N.E., Seattle 5, Wash. (1, 1951)

Fincke, Margaret L., Ph.D. Oregon State College, Corvallis. *Prof. and Head of Dept. of Foods and Nutrition, School of Home Economics.* (5, 1940)

Finerty, John C., Ph.D. Univ. of Miami School of Medicine, Coral Gables, Fla. *Prof. and Chairman, Dept. of Anatomy; Asst. Dean.* (1, 1947)

Fingl, Edward G., Ph.D. Univ. of Utah, Dept. of Pharmacology, Salt Lake City 1. *Asst. Prof.* (3, 1953)

Fink, Kay, Ph.D. Veterans Admin. Hospital, Long Beach, Calif. *Research Biochemist; Assoc. Clinical Prof. of Biophysics, UCLA.* (2, 1953)

Fink, Mary A., Ph.D. Univ. of Colorado School of Medicine, Denver 22. *Asst. Prof. of Microbiology.* (6, 1955)

Fink, Robert M., Ph.D. Univ. of California Med. Center, Los Angeles 24. *Assoc. Prof., Physiological Chemistry.* (2, 1953)

Finland, Maxwell, M.D. Boston City Hospital, Boston, Mass. *Assoc. Prof. of Medicine, Harvard Med. School.* (6, 1941)

Finnegan, J. K., Ph.D. Med. College of Virginia,

Richmond 19. *Assoc. Prof. of Pharmacology.* (3, 1947)

Firminger, Harlan I., M.D. Univ. of Maryland, School of Medicine, Baltimore 1. *Prof. of Pathology and Chairman of Dept.* (4, 1954)

Firor, Warfield Monroe, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Surgery, Johns Hopkins Univ.* (1, 1932)

Fischel, Edward E., M.D., Sc.D. Med. Bronx Hosp., New York City 56. *Dir., Dept. of Medicine.* (6, 1948)

Fischer, Edmond H., Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (2, 1955)

Fischer, Ernst, M.D. Med. College of Virginia, Richmond. *Research Prof. of Physiology.* (1, 1936)

Fischer, Hermann O. L., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Prof. Emeritus.* (2R, 1940)

Fischer, Marie A., Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh 13, Pa. (2, 1954)

Fischer, Martin H., M.D. Univ. of Cincinnati, 107 Physics Bldg., Cincinnati 21, Ohio. *Prof. Emeritus of Physiology.* (1, 1901; 2R, 1919)

Fishberg, Ella H., M.D. Beth Israel Hospital, Pearlman Pl., New York City 3. *Dir., Biochem. Lab.* (2, 1931)

Fisher, Albert Madden, Ph.D. Univ. of Toronto, Connaught Med. Research Labs., Insulin Committee, 150 College St., Toronto 5, Canada. *Asst. Dir., Connaught Labs.; Assoc. Prof., Dept. of Physiological Hygiene, Univ. of Toronto.* (2, 1944)

Fisher, Bernard, M.D. Univ. of Pittsburgh Med. School, Pittsburgh 13, Pa. *Assoc. Prof. of Surgery; Dir., Lab. of Exptl. Surgery.* (1, 1956)

Fisher, Edwin R., M.D. VA Hosp., Pittsburgh 40, Pa. *Chief, Lab. Service.* (4, 1954)

Fisher, Hettie Hughes, Ph.D. 2311 Jefferson Ave., Paducah, Ky. (2, 1946)

Fisher, Kenneth C., Ph.D. Univ. of Toronto, Dept. of Zoology, Toronto, Canada. *Prof. and Dept. Chairman.* (1, 1940)

Fishman, Alfred P., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, 620 W. 168th St., New York City 32. *Asst. Prof. of Medicine and Dir., Cardiorespiratory Lab.* (1, 1952)

Fishman, William H., Ph.D. Tufts Univ. Med. School, 30 Bennet St., Boston 15, Mass. *Research Prof., Biochemistry and Nutrition.* (2, 1947)

Fiske, Cyrus H., M.D. 1155 Massachusetts Ave., Lexington 73, Mass. *Prof. Emeritus of Biological Chemistry, Harvard Univ.* (2R, 1914)

Fitch, Frank W., M.D. Univ. of Chicago, Dept. of Pathology, Chicago, Ill. *PHS Post-doctoral Fellow.* (4, 1957)

Fitzgerald, Mabel P. 12 Crick Rd., Oxford, England. (1R, 1913)

Fitzgerald, Patrick James, M.D. State Univ. of New York College of Medicine, Dept. of Pathology, Brooklyn 3. *Prof. and Chairman.* (4, 1956)

Fitzhugh, O. Garth, Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. *Chief, Chronic Toxicity Branch.* (3, 1940)

Flavin, Martin, M.D., Ph.D. Univ. of California, Dept. of Agric. Biochemistry, Berkeley. (2, 1955)

Fleischmann, Walter, M.D., Ph.D. VA Ctr., Mountain Home, Tenn. *Chief, Lab. Service.* (1, 1940)

Fleisher, Gerard A., Ph.D. Mayo Clinic, Rochester, Minn. *Asst. Prof., Mayo Fndn., Univ. of Minnesota.* (2, 1957)

Fleisher, Moyer S., M.D. Jewish Hospital, 216 S. Kingshighway Blvd., St. Louis 10, Mo. (4, 1924; 6, 1932)

Flexner, Louis B., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4. *Prof. and Chairman of Dept.* (1, 1933; 2, 1948)

Flick, John A., M.D. Univ. of Pennsylvania Grad. School of Medicine, Dept. of Bacteriology, Philadelphia 4. *Assoc. Prof., Med. Microbiology; Chairman, Dept. of Microbiology.* (6, 1949)

Flock, Eunice V., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Biochemistry, Mayo Foundation, Univ. of Minnesota.* (2, 1940)

Florman, Alfred L., M.D. North Shore Hosp., Manhasset, N. Y. *Dir. of Pediatrics.* (6, 1942)

Flosdorf, Earl W., Ph.D. Forest Grove, Pa. *Dir. of Research, F. J. Stokes Corporation, Philadelphia.* (6, 1941)

Floyd, Cleveland, M.D., Sc.D. 412 Beacon St., Boston, Mass. *Consultant, Boston Health Dept.* (6, 1916)

Floyd, Norman F., B. S. Lankenau Hosp. Research Inst., Fox Chase, Philadelphia 11, Pa. *Research Assoc.* (2, 1957)

Flynn, Joseph E., M.D. Pathology Dept., Univ. of Missouri Med. School, Columbia. (4, 1953)

Foa, Piero Pio, Ph.D., M.D. 710 S. Wolcott St., Chicago, Ill. *Prof. of Physiology and Pharmacology, Chicago Med. School.* (1, 1944)

Fodden, John Henry, M.D. Mt. Sinai Hosp., Div. of Laboratories, Milwaukee 3, Wis. *Assoc. Dir. of Labs.* (4, 1956)

Fodor, Paul J., Ph.D. New York Med. College, Biochemistry Dept., 5th Ave. at 105th St., New York City 29. *Asst. Prof.* (2, 1954)

Fogg, Lloyd C., Ph.D. Pondville Hosp., Walpole, Mass. *Instr. in Pathology, Harvard Med. School.* (4, 1957)

Folch, Jordi, M.D. McLean Hospital, Waverley, Mass. *Dir. of Scientific Research; Prof. of Neurochemistry, Harvard Med. School.* (2, 1941)

Foldes, Francis F., M.D. Mercy Hospital, 1400–1430 Locust St., Pittsburgh 19, Pa. *Dir. of Anesthesiology.* (**3,** 1952)

Foley, George E., Sc.D. Children's Cancer Research Fndn., Boston 15, Mass. *Chief, Labs. of Microbiology.* (**4,** 1957)

Folk, G. Edgar, Jr., Ph.D. Univ. of London King's College, Dept. of Zoology, London WC2, England. (**1,** 1953)

Folkers, Karl, Ph.D. Merck & Co., Inc., Rahway, N. J. *Exec. Dir., Fundamental Research.* (**2,** 1947; **5,** 1954)

Follensby, Edna M., Ph.D. 80 E. Concord St., Boston, Mass. *Research Assoc., Boston Univ. School of Medicine.* (**6,** 1933)

Follis, Richard H., Jr., M.D. Armed Forces Inst. of Pathology, Walter Reed Army Med. Ctr., Washington 25, D. C. (**4,** 1942)

Foltz, Elwood L., M.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Asst. Prof. in Medicine; Assoc. in Clin. Pharmacology.* (**1,** 1952; **3,** 1955)

Fong, Jacob, Ph.D. 2640 Derby St., Berkeley 5, Calif. *Assoc. Prof. of Bacteriology, Univ. of California.* (**6,** 1951)

Fontaine, Thomas D., Ph.D. U. S. Senate Office Bldg., Washington 25, D. C. *Adm. Asst. to Sen. John C. Stennis.* (**2,** 1946)

Foot, Nathan Chandler, M.D. Cornell Univ. Med. College, New York City. *Consultant.* (**4,** 1924)

Foraker, Alvan Glenn, M.D. Baptist Memorial Hosp., Jacksonville, Fla. *Pathologist; Physician.* (**4,** 1954)

Forbes, Alexander, A.M., M.D. Harvard University, Biological Labs., Divinity Ave., Cambridge, Mass. *Prof. Emeritus of Physiology.* (**1,** 1910)

Forbes, Ernest B., Ph.D. State College, Pa. *Prof. Emeritus of Animal Nutrition, Pennsylvania State Univ.* (**1R,** 1917; **5R,** 1935)

Forbes, Henry S., M.D. 71 Forest St., Milton 86, Mass. (**1R,** 1931)

Forbes, John C., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Biochemistry.* (**2,** 1937)

Forbes, Richard M., Ph.D. Univ. of Illinois, Div. of Animal Nutrition, Urbana. *Professor.* (**5,** 1953)

Forbes, William H., Ph.D. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. (**1,** 1943)

Formal, Samuel B., Ph.D. Walter Reed Army Inst. of Research, WRAMC, Washington 12, D.C. *Chief, Dept. of Applied Immunology.* (**6,** 1957)

Forney, Robert B., Ph.D. Indiana Univ. School of Medicine, Indianapolis 7. *Assoc. Prof. of Toxicology.* (**3,** 1950)

Forster, Francis M., M.D. 3800 Reservoir Rd., Washington, D. C. *Prof. and Dir. of Dept. of Neurology and Dean, Georgetown Univ. School of Medicine.* (**1,** 1948)

Forster, Robert Elder, II, M.D. 721 Millbrook Lane, Haverford, Pa. *Assoc. Prof. of Physiology, Grad. School of Medicine, Univ. of Pennsylvania.* (**1,** 1951)

Forster, Roy P., Ph.D. Dartmouth College, Dept. of Zoology, Hanover, N. H. *Professor.* (**1,** 1950)

Fortier, Claude, M.D., Ph.D. Baylor Univ. College of Medicine, Dept. of Physiology, Houston, Tex. *Assoc. Prof. of Physiology; Dir., Neuroendocrine Unit, Blue Bird Neurological Research Labs., Methodist Hosp.* (**1,** 1957)

Fosdick, Leonard S., Ph.D. 311 E. Chicago Ave., Chicago, Ill. *Prof. of Chemistry, Northwestern Univ.* (**2,** 1944)

Foster, G. L., Ph.D. R.F.D. 1, Raymond, N. H. *Emeritus Prof. of Biological Chemistry, Columbia Univ. College of Physicians and Surgeons.* (**2R,** 1923)

Foster, Harry E., M.D. % American Express, 11 Rue Scribe, Paris 9°, France. (**6R,** 1913)

Foster, Jackson W., Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin 12. *Prof. of Bacteriology.* (**2,** 1946)

Foster, Joseph F., Ph.D. Dept. of Chemistry, Purdue Univ., Lafayette, Ind. *Professor.* (**2,** 1952)

Foster, Robert H. K., Ph.D., M.D. 301 E. Jefferson St., Franklin, Ind. *Practicing Physician.* (**1,** 1940; **3,** 1944)

Foster, William C., M.S. Misericordia Hosp., 54th and Cedar Ave., Philadelphia 43, Pa. *Dir., Chemistry Lab.; Consulting Physiologist.* (**1,** 1952)

Fothergill, LeRoy D., M.D. Fort Detrick, Frederick, Md. (**6,** 1952)

Foulks, James G., Ph.D., M.D. Univ. of British Columbia, Dept. of Pharmacology, Vancouver, Canada. *Prof. and Head of Dept.* (**1,** 1957; **3,** 1956)

Fowler, Ward S., M.D. Mayo Foundation, Dept. of Physiology, Rochester, Minn. *Professor.* (**1,** 1950)

Fox, Charles L., Jr., M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City 29. *Assoc. Prof. of Surgery; Assoc. in Physiology.* (**1,** 1951; **6,** 1951)

Fox, Jack J., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Associate.* (**2,** 1954)

Fox, John P., M.D. Tulane Univ. School of Medicine, 1430 Tulane Ave., New Orleans, La. *Prof. of Epidemiology.* (**6,** 1953)

Fox, Sidney W., Ph.D. Florida State Univ., Oceanographic Inst., Tallahassee. *Dir. and Prof. of Marine Sciences; Prof., Chemistry Dept.* (**2,** 1946)

Fraenkel, Gottfried S., Ph.D. Univ. of Illinois, Urbana. *Prof. of Entomology.* (**5,** 1949)

Fraenkel-Conrat, Heinz, M.D., Ph.D. Univ. of California, Virus Lab., Berkeley. *Assoc. Biochemist.* (**2,** 1942)

Francis, Thomas, Jr., M.D. Univ. of Michigan School of Public Health, Ann Arbor. *Henry Sewall Univ. Prof. of Epidemiology; Chairman of Dept.* (**4,** 1940; **6,** 1930)

Frank, Karl, Ph.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda, Md. *Neurophysiologist, Spinal Cord Sec., Lab. of Neurophysiology.* (**1,** 1953)

Franke, Florent E., M.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1934)

Frantz, Ivan D., Jr., M.D. Univ. of Minnesota, Dept. of Medicine, Minneapolis 14. *Research Prof.* (**2,** 1953)

Fraps, R. M., Ph.D. USDA, Agric. Research Service, Beltsville, Md. *Physiologist.* (**1,** 1947)

Fraser, Havelock F., M.D. Public Health Service Hospital, Lexington, Ky. *Asst. Dir., Addiction Research Center, Natl. Inst. of Mental Health.* (**3,** 1952)

Frawley, John P., Ph.D. Hercules Powder Co., Med. Dept., Wilmington 99, Del. *Toxicologist.* (**3,** 1953)

Fredette, Victorien. Univ. of Montreal, Montreal, Que., Canada. *Assoc. Prof. of Bacteriology; Assoc. Dir., Inst. of Microbiology.* (**6,** 1948)

Free, Alfred H., Ph.D. Miles-Ames Research Lab., Elkhart, Ind. *Head of Biochemistry Section.* (**2,** 1946; **5,** 1944)

Freedberg, A. Stone, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir., Med. Research Dept.; Asst. Prof. of Medicine, Harvard Med. School.* (**1,** 1952)

Freeman, Leslie Willard, Ph.D., M.D. Indiana Univ., Dept. of Surgery, Indianapolis. *Prof. of Surgery; Dir., Surgical Exptl. Labs.* (**1,** 1944)

Freeman, Norman E., M.D. Univ. of California Med. School, Dept. of Surgery, San Francisco 22. (**1,** 1936)

Freeman, Smith, M.D., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Biochemistry.* (**1,** 1937)

Fregly, Melvin J., Ph.D. Univ. of Florida College of Medicine, Gainesville. *Asst. Prof. of Physiology.* (**1,** 1955)

Freiman, David G., M.D. Beth Israel Hosp., Dept. of Pathology, Boston, Mass. *Clin. Prof. of Pathology, Harvard Med. School.* (**4,** 1954)

Freis, Edward D., M.D. Georgetown Univ. Hosp., Washington 7, D. C. *Chief, Cardiovascular Research Lab.* (**3,** 1955)

French, C. Stacy, Ph.D. Carnegie Institution of Washington, Stanford, Calif. *Dir., Dept. of Plant Biology.* (**2,** 1946)

French, Cyrus E., Ph.D. Dept. of Animal Nutrition, Pennsylvania State Univ., University Park. *Professor.* (**5,** 1948)

French, Dexter, Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Professor.* (**2,** 1953)

Frenkel, Albert W., Ph.D. Univ. of Minnesota, Dept. of Botany, Minneapolis 14. *Professor.* (**2,** 1957)

Frenkel, Jacob Karl, M.D., Ph.D. Univ. of Kansas School of Medicine, Kansas City 12. *Assoc. Prof. of Pathology.* (**4,** 1953)

Freund, Jules, M.D. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Chief, Lab. of Immunology.* (**6,** 1924)

Frey, Charles N., Ph.D. 45 Cambridge Rd., Scarsdale, N. Y. (**5,** 1948)

Freyburger, Walter A., Jr., Ph.D. Upjohn Co., Kalamazoo, Mich. *Pharmacologist.* (**3,** 1951)

Freygang, Walter H., Jr., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, PHS.* (**1,** 1955)

Fried, George H., Ph.D. Beth Israel Hosp., New York City 3. *Research Assoc., Levy Labs.* (**4,** 1957)

Fried, Josef, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dept. Head, Div. of Organic Chemistry.* (**2,** 1948)

Friedberg, Felix, Ph.D. Howard Univ. Med. School, Dept. of Biochemistry, Washington 1, D. C. *Asst. Prof.* (**2,** 1951)

Friedemann, Theodore E., Ph.D. US Army Med. Nutrition Lab., Fitzsimons Army Hosp., Denver 8, Colo. *Scientific Dir.* (**2,** 1925; **5,** 1952)

Frieden, Earl, Ph.D. Florida State Univ., Dept. of Chemistry, Tallahassee. *Assoc. Prof.* (**2,** 1956)

Frieden, Edward H., Ph.D. Boston Dispensary, 25 Bennet St., Boston 11, Mass. *Research Coordinator; Asst. Prof. of Biochemistry, Tufts Univ. Med. School.* (**2,** 1950)

Friedewald, William F., M.D. Emory Univ. School of Medicine, Atlanta, Ga. *Assoc. Prof. of Medicine.* (**4,** 1941)

Friedgood, Harry B., M.D. Univ. of California Med. Ctr., Dept. of Medicine, San Francisco. *Lecturer in Medicine.* (**1,** 1936)

Friedkin, Morris Enton, Ph.D. Washington Univ. Med. School, Dept. of Pharmacology, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (**2,** 1951)

Friedman, M. H. F., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1941)

Friedman, Maurice H., Ph.D., M.D. 2040 Belmont Rd., Washington 9, D. C. (**1,** 1929)

Friedman, Meyer, M.D. Harold Brunn Inst. for Cardiovascular Research, Mt. Zion Hospital, 1600 Divisadero St., San Francisco, Calif. *Director.* (**1,** 1947)

Friedman, Nathan B., M.D. Cedars of Lebanon Hospital, Div. of Labs., 4833 Fountain Ave., Los Angeles, Calif. *Director.* (**4,** 1942)

Friedman, Sydney M., M.D., Ph.D. Univ. of British Columbia, Vancouver, B.C., Canada. *Prof. and Head, Dept. of Anatomy.* (**1,** 1947)

Friend, Charlotte, Ph.D. Sloan-Kettering Inst., New York City 21. *Associate; Research Assoc., Sloan-Kettering Div. of Cornell Univ. Med. College.* (**6,** 1957)

Friend, Dale G., M.D. Harvard Med. School, Boston 15, Mass. *Asst. Prof. in Medicine; Sr. Assoc. in Medicine, Peter Bent Brigham Hosp.* (**3,** 1955)

Frisell, Wilhelm R., Ph.D. Univ. of Colorado School of Medicine, Denver 20. *Asst. Prof., Biochemistry.* (**2,** 1956)

Fritz, Irving B., D.D.S., Ph.D. Univ. of Michigan, Dept. of Physiology, Ann Arbor. *Asst. Prof.* (**1,** 1956)

Fritz, James C., B.S. Dawe's Labs., Inc. 4800 S. Richmond St., Chicago 32, Ill. *Dir. of Nutrition Research.* (**5,** 1951)

Frohman, Charles E., Ph.D. Lafayette Clinic, Detroit 7, Mich. *Biochemist.* (**2,** 1956)

Frost, Douglas Van Anden, Ph.D. Abbott Labs., N. Chicago, Ill. *Head of Nutritional Research.* (**2,** 1946; **5,** 1947)

Frumin, M. Jack, M.D. Columbia Univ., New York City 32. *Asst. Prof. of Anesthesiology.* (**3,** 1957)

Fruton, J. S., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Eugene Higgins Prof. of Biochemistry; Chairman, Dept. of Biochemistry.* (**2,** 1938)

Fry, William J., M.S. Univ. of Illinois, Bioacoustics Lab., Urbana. *Head of Lab.; Research Prof.* (**1,** 1954)

Fu, Shou-Cheng J., Ph.D. Children's Med. Ctr., Boston 15, Mass. *Research Assoc.* (**2,** 1957)

Fugo, Nicholas W., Ph.D., M.D. Univ. of Chicago, Dept. of Obstetrics and Gynecology, Chicago 37, Ill. *Asst. Prof.* (**3,** 1944)

Fuhrman, Frederick A., Ph.D. Stanford Univ., Stanford, Calif. *Prof. of Physiology.* (**1,** 1946)

Fukushima, David K., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc., Steroid Biochemistry.* (**2,** 1952)

Fuld, Maria, Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Pittsburgh, Pa. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Fuller, Henry Shepard, M.D. Walter Reed Army Inst. of Research, Dept. of Rickettsial Diseases, Walter Reed Army Med. Ctr., Washington 12. D. C. *Chief.* (**6,** 1956)

Fuller, John L., Ph.D. Box 847, Bar Harbor, Maine. *Staff Scientist, Jackson Memorial Lab.* (**1,** 1954)

Fulton, George P., Ph.D. Boston Univ., Dept. of Biology, 675 Commonwealth Ave., Boston, Mass. *Prof. and Chairman of Dept.* (**1,** 1950)

Fulton, John Farquhar, Ph.D., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Sterling Prof. of History of Medicine.* (**1,** 1925)

Funderburk, William H., Ph.D. Miles-Ames Research Labs., *Pharmacologist; Lecturer in Pharmacology, Univ. of Illinois Med. School.* (**3,** 1953)

Funk, Casimir, D.Sc., Ph.D. 186 Riverside Drive, New York City 24. *Pres., Funk Fndn. for Med. Research.* (**2R,** 1921)

Fuortes, M. G. F., M.D. Natl. Inst. of Neurological Diseases and Blindness, Ophthalmology Br., NIH, Bethesda 14, Md. (**1,** 1952)

Furchgott, Robert F., Ph.D. State Univ. of New York College of Medicine at New York City, Dept. of Pharmacology, Brooklyn 3, N. Y. *Prof. and Chairman of Dept.* (**2,** 1948; **3,** 1952)

Furst, Arthur, Ph.D. Stanford Univ. School of Medicine, Stanford, Calif. *Assoc. Prof. of Pharmacology.* (**3,** 1957)

Furth, Jacob, M.D. Children's Cancer Research Fndn., 35 Binney St., Boston 15, Mass. *Assoc. Dir., Research.* (**4,** 1932)

Gabrio, Beverly Wescott, Ph.D. King County Central Blood Bank, Terry at Madison, Seattle, Wash. *Dir. of Biochemical Research; Instr. in Biochemistry, Univ. of Washington.* (**2,** 1954)

Gaby, William L., Ph.D. Hahnemann Med. College, Div. of Microbiology, Philadelphia, Pa. *Assoc. Prof.* (**6,** 1957)

Gaddum, John H., Sc.D., F.R.S. Univ. of Edinburgh, Edinburgh, Scotland. *Prof. of Pharmacology.* (**3,** 1950)

Gaebler, Oliver H., Ph.D., M.D. Henry Ford Hospital, Detroit, Mich. *Head, Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research.* (**2,** 1927)

Gaffron, Hans, Ph.D. Univ. of Chicago, Research Insts., 5650 Ellis Ave., Chicago 37, Ill. *Prof. of Biochemistry, Dept. of Biochemistry and Research Insts.* (**2,** 1941)

Gagge, Adolf P., Ph.D. USAF, Office of Scientific Research, Washington 25, D. C. *Col. USAF.* (**1,** 1939)

Gaines, Sidney, Ph.D. Walter Reed Army Inst. of Research, WRAMC, Washington 12, D. C. *Chief, Dept. of Microbiology, Div. of Special Operations.* (**6,** 1957)

Gal, Emery M., Ph.D. Univ. of California Med. Ctr., Los Angeles 24. *Asst. Prof., Dept. of Pharmacology.* (**2,** 1955)

Galambos, Robert, Ph.D., M.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Ctr., Dept. of Neurophysiology, Washington 12, D. C. *Chief.* (**1,** 1942)

Galdston, Morton, M.D. New York Univ. Col-

lege of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (1, 1950)

Gall, Edward A., M.D. Cincinnati General Hospital, Cincinnati, Ohio. *Mary M. Emery Prof. of Pathology, Univ. of Cincinnati College of Medicine.* (4, 1941)

Gallagher, Thomas F., Ph.D. Sloan-Kettering Inst., 410 E. 68th St., New York City 21. *Chief, Divs. Steroid Metabolism and Steroid Biochemistry.* (2, 1932)

Gallup, Willis D., Ph.D. Oklahoma State Univ., Stillwater. *Chemist and Prof. of Agricultural Chemistry.* (2, 1932)

Gamble, James L., M.D., Sc.D. 33 Edgehill Rd., Brookline, Mass. *Prof. Emeritus of Pediatrics, Harvard Med. School.* (2R, 1922; 5R, 1933)

Ganong, William Francis, M.D. Univ. of California School of Medicine, Dept. of Physiology, Berkeley 4. *Asst. Prof.* (1, 1957)

Gantt, W. Horsley, M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Assoc. Prof. of Psychiatry; Dir., Pavlovian Lab.* (1, 1935; 3, 1954)

Ganz, Aaron, Ph.D. Univ. of Tennessee Med. Units, Memphis 3. *Assoc. Prof. of Pharmacology.* (3, 1957)

Garb, Solomon, M.D. Union Univ., Albany Med. School, Albany, N. Y. *Asst. Prof. of Pharmacology.* (3, 1951)

Garbat, Abraham L., M.D. 103 E. 78th St., New York City. *Consultant Physician, Lenox Hill Hospital; Clin. Prof. of Medicine, New York Univ. Med. School.* (6, 1913)

Gardner, Ernest, M.D. Wayne State Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Prof. of Anatomy.* (1, 1949)

Gardocki, Joseph F., Ph.D. Pfizer Therapeutic Inst., Maywood, N. J. *Sr. Pharmacologist.* (3, 1957)

Garner, Raymond L., Ph.D. Seton Hall College of Medicine and Dentistry, Dept. of Biochemistry, Med. Ctr., Jersey City 4, N. J. *Prof. and Chairman of Dept.* (2, 1947)

Garren, Henry W., Ph.D. North Carolina State College, Raleigh. *Assoc. Prof. of Poultry Endocrinology.* (1, 1957)

Garst, Josephine B., Ph.D. VA Hosp., 7300 York Rd., Cleveland 30, Ohio. *Research Biochemist.* (2, 1955)

Garvey, Justine S., Ph.D. California Inst. of Technology, Gates and Crellin Labs. of Chemistry, Pasadena 4. *Sr. Research Fellow.* (6, 1956)

Gasser, Herbert S., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Director, Emeritus.* (1, 1915; 3, 1924)

Gassner, Frank X., D.V.M. Colorado State Univ., Dept. of Chemistry, Fort Collins. *Prof. of Endocrine Research.* (1, 1947)

Gasteiger, Edgar L., Jr., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Physiology, Rochester, N. Y. *Asst. Prof.* (1, 1954)

Gates, Olive, M.D. Cancer Research Inst., New England Deaconess Hosp., 194 Pilgrim Rd., Boston, Mass. *Assoc. Pathologist.* (4, 1940)

Gaudino, Mario, M.D., Ph.D. Abbott Labs. International and Abbott Universal, Suite 1000, Merchandise Mart Plaza, Chicago 54, Ill. *Med. Dir.* (1, 1951)

Gauer, Otto H., M.D. W. G. Kerckhoff Inst. d. Max-Planck-Gesellschaft, Bad Nauheim, West Germany. *Professor.* (1, 1954)

Gaunt, Robert, Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir., Endocrine Research.* (1, 1939)

Gawron, Oscar, Ph.D. Duquesne Univ., Dept. of Chemistry, Pittsburgh 19, Pa. *Professor.* (2, 1956)

Gay, Leslie N., M.D., D.Sc. 1114 St. Paul St., Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ.; Dir., Allergy Clinic, Johns Hopkins Hosp.* (6, 1927)

Geary, John R., Jr., M.D., Ph.D. 451 S. McCarrons Blvd., St. Paul 13, Minn. (4, 1954)

Gebhardt, Louis P., M.D. Univ. of Utah College of Medicine, Salt Lake City 12. *Prof. and Head of Dept. of Bacteriology.* (6, 1954)

Geddes, William F., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 1. *Prof. and Head of Dept.* (2, 1953)

Geiger, Ernest, M.D., Ph.D. 4233 Don Ortega Pl., Los Angeles 8, Calif. *Prof. of Pharmacology and Toxicology, Univ. of Southern California Med. School, Los Angeles; Dir. of Research, Van Camp Seafood Co., Terminal Island.* (5, 1950)

Geiling, E. M. K., M.D., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. Emeritus., Dept. of Pharmacology.* (1R, 1933; 2R, 1927; 3, 1925)

Geiman, Quentin M., Ph.D. Stanford Univ. School of Medicine, Dept. of Preventive Medicine, San Francisco, Calif. *Prof. of Preventive Medicine (Tropical Public Health).* (4, 1955)

Gelfan, Samuel, Ph.D. 1249 Fifth Ave., New York City 29. *Research Assoc. in Neurology and Neurosurgery, New York Med. College.* (1, 1930)

Gell, C. F., M.D., D.Sc. Naval Air Materiel Ctr., Naval Base, Philadelphia, Pa. *Dir., Air Crew Equipment Lab.* (1, 1955)

Gellhorn, Alfred, M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, New York City 32. *Dir., Inst. of Cancer Research.* (3, 1946)

Gellhorn, Ernst, M.D., Ph.D. 2 Fellowship Circle, Santa Barbara, Calif. (On leave from Univ. of Minnesota, *Prof. of Neurophysiology.*) (1, 1930)

Gemmill, Chalmers L., M.D. Univ. of Virginia

Med. School, Charlottesville. *Prof. of Pharmacology.* (**1,** 1928; **2,** 1935; **3,** 1946)

George, Robert, Ph.D. Univ. of California Med. Ctr., Dept. of Pharmacology, Los Angeles 24. *Asst. Prof.* (**3,** 1957)

Gerard, R. W., Ph.D., M.D. Univ. of Michigan, Mental Health Research Inst., Ann Arbor. *Prof. of Neurophysiology.* (**1,** 1927)

Gergely, John, M.D., Ph.D. Massachusetts General Hospital, Cardiac Biochemistry Research Lab., Boston. *Assoc. Biochemist; Established Investigator, Am. Heart Assn.; Research Assoc. in Medicine, Harvard Med. School.* (**2,** 1952)

Gerheim, Earl B., Ph.D. Sherman Labs., 5031 Grandy, Detroit 11, Mich. *Dir., Pharmacology Dept.* (**1,** 1950; **6,** 1950)

Germuth, Frederick G., Jr., M.D. Johns Hopkins Hosp., Baltimore, Md. *Assoc. Prof. of Pathology, Johns Hopkins Med. School.* (**4,** 1956; **6,** 1954)

Gerschman, Rebeca, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Physiology, Rochester 20, N. Y. *Asst. Prof.* (**1,** 1955)

Gersh, Isidore, Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Anatomy.* (**4,** 1947)

Gershberg, Herbert, M.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Asst. Prof. of Medicine-Physiology.* (**1,** 1954)

Gersten, Jerome W., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Prof. and Head, Physical Medicine and Rehabilitation.* (**1,** 1951)

Gerstner, Herbert B., M.D. USAF School of Aviation Medicine, Randolph Field, Texas. *Radiological Defense Officer.* (**1,** 1956)

Gesler, Robert M., Ph.D. Sterling Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3,** 1957)

Gest, Howard, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Microbiology, Cleveland 6, Ohio. *Assoc. Prof.* (**2,** 1952)

Gettler, Alexander O., Ph.D. 400 E. 29th St., New York City 16. *Prof. Emeritus of Chemistry New York Univ.; Toxicologist to Chief Med. Examiner's Office of the City of New York.* (**2R,** 1916)

Gey, George Otto, M.D. Johns Hopkins Univ., Baltimore 5, Md. *Dir., Finney-Howell Cancer Research Lab., Asst. Prof. of Surgery.* (**1,** 1940)

Geyer, Robert P., Ph.D. Harvard School of Public Health, Dept. of Nutrition, Boston, Mass. *Assoc. Prof.* (**5,** 1950)

Gezon, Horace Martin, M.D. Univ. of Pittsburgh Graduate School of Public Health, Dept. of Epidemiology and Microbiology, Pittsburgh 13, Pa. *Assoc. Prof. of Epidemiology.* (**6,** 1956)

Giarman, Nicholas J., Ph.D. Yale Univ. Med. School, Dept. of Pharmacology, New Haven, Conn. *Assoc. Prof.* (**3,** 1953)

Gibbard, J., S.M., F.R.S.C. Dept. of Natl. Health and Welfare, Ottawa, Ont., Canada. *Dir., Lab. of Hygiene.* (**6,** 1946)

Gibbs, Frederic Andrews, M.D. 720 N. Michigan Ave., Suite 610, Chicago, Ill. (**1,** 1935)

Gibbs, Martin, Ph.D. Cornell Univ., Dept. of Biochemistry, Ithaca, N. Y. (**2,** 1953)

Gibbs, Owen Stanley, M.D. Gibbs Med. Research Lab., P. O. Box 5387, Whitehaven, Memphis 16, Tenn. (**3,** 1930)

Gibson, David M., M.D. Univ. of Wisconsin, Enzyme Inst., Madison 5. *Asst. Prof. of Enzyme Chemistry.* (**2,** 1956)

Gibson, Robert Banks, Ph.D. Univ. Hospital, Iowa City, Iowa. *Emeritus Prof. of Biochemistry, State Univ. of Iowa.* (**2R,** 1906)

Gilbert, James B., M.D. Univ. of Texas, Dept. of Chemistry, Austin 12. *Rosalie B. Hite Fellow.* (**2,** 1955)

Gillis, Marvin B., Ph.D. International Minerals and Chemical Corp., Skokie, Ill. *Dir. of Research.* (**5,** 1952)

Gilman, Alfred, Ph.D. Yeshiva University, Albert Einstein College of Medicine, New York City 61. *Prof. and Chairman of Pharmacology.* (**1,** 1935; **3,** 1934)

Gilson, Arthur S., Jr., Ph.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1927)

Gilvarg, Charles, Ph.D. New York Univ.-Bellevue Med. Ctr., Dept. of Biochemistry, New York City 16. *Asst. Prof.* (**2,** 1955)

Ginsberg, Harold S., M.D. Western Reserve Univ. School of Medicine, Cheveland 6, Ohio. *Assoc. Prof. of Preventive Medicine; Asst. Prof. of Medicine.* (**6,** 1951)

Githens, Thomas S., M.D. The Cambridge, Philadelphia 44, Pa. (**1R,** 1915)

Givens, Maurice H., Ph.D. Box 5116, Biltmore, N. C. (**1R,** 1917; **2R,** 1915)

Gjessing, Erland Cheney, Ph.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof., Dept. of Biochemistry.* (**2,** 1948)

Glaser, Robert Joy, M.D. Univ. of Colorado Med. Ctr., 4200 E. Ninth Ave., Denver 20. *Dean and Prof. of Medicine.* (**4,** 1954)

Glass, George B. Jerzy, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City. *Assoc. Prof. of Medicine.* (**1,** 1953)

Glass, Howard G., M.D., Ph.D. Miles-Ames Research Lab., Elkhart, Ind. *Pharmacologist.* (**3,** 1947)

Glassman, Jerome M., Ph.D. Wyeth Inst. for Med. Research, Pharmacology Sec., P.O. Box 8299, Philadelphia 1, Pa. *Sr. Research Pharmacologist.* (**3,** 1956)

Glazko, Anthony J., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Research Biochemist.* (**1,** 1942)

Glick, David, Ph.D. Univ. of Minnesota, Dept.

of Physiological Chemistry, 180 Lyon Labs., Minneapolis 14. *Professor.* (**2,** 1936)

Glickman, Nathaniel, M.S. 970 So. Shore Dr., Miami Beach, Fla. (**1,** 1947)

Glinos, Andre D., M.D. Walter Reed Army Inst. of Research, WRAMC, Washington 12, D. C. *Chief, Growth Physiology Lab.* (**1,** 1957)

Gluckman, Melvyn I., Ph.D. VA Hosp., Pittsburgh 6, Pa. (**3,** 1954)

Gochenour, William S., Jr., V.M.D. Walter Reed Army Med. Center, Med. Unit, Fort Detrick, Md. (**6,** 1950)

Goddard, David R., Ph.D. Univ. of Pennsylvania, Botanical Labs., Philadelphia 4. *Prof. of Botany.* (**2,** 1953)

Goddard, James W., M.D. Jefferson Med. College, Dept. of Exptl. Medicine, Philadelphia 7, Pa. *Research Pathologist.* (**4,** 1956)

Godwin, John T., M.D. St. Joseph's Infirmary, 272 Courtland St., N.E., Atlanta, Ga. *Dir. of Labs.* (**4,** 1954)

Goebel, Walther F., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member and Professor.* (**2,** 1929; **6,** 1937)

Goettsch, Marianne, Ph.D. Univ. of Puerto Rico Med. School, San Juan. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1933; **5,** 1941)

Goetzl, Franz R., Ph.D., M.D. 2622 Piedmont Ave., Berkeley 4, Calif. (**1,** 1947)

Gold, Harry, M.D. Cornell Univ. Med. College, New York City 21. *Prof. of Clin. Pharmacology.* (**3,** 1927)

Goldbaum, Leo R., Ph.D. Armed Forces Inst. of Pathology, Walter Reed Army Med. Center, Washington 12, D. C. *Toxicologist.* (**3,** 1952)

Goldberg, Harry, M.D. Hahnemann Med. College and Hosp., Philadelphia, Pa. *Asst. Prof. of Medicine; Dir., Cardiopulmonary Lab.* (**1,** 1955)

Goldberg, Leon I., Ph.D., M.D. Massachusetts Gen. Hosp., Boston 14. *Asst. Resident, Dept. of Medicine.* (**3,** 1953)

Goldblatt, Harry, M.D. Mt. Sinai Hosp., 1800 E. 105th St., Cleveland 6, Ohio. *Dir. of Labs.; Prof. Exptl. Pathology, Western Reserve Univ. School of Medicine.* (**1,** 1945; **4,** 1927)

Golden, Alfred, M.D. 26764 York Rd., Huntington Woods, Mich. (**4,** 1947)

Goldfarb, A. R., Ph.D. Chicago Med. School, Chicago 12, Ill. *Asst. Prof.* (**2,** 1955)

Goldfeder, Anna, D.Sc. 920 Riverside Dr., New York City 32. *Sr. Biologist in Charge of Cancer Research, Dept. of Hospitals, City of New York; Research Assoc., Dept. of Biology, New York Univ.* (**1,** 1950)

Goldforb, A. J., Ph.D. City College of New York, New York City. *Prof. of Biology.* (**1,** 1930)

Goldie, Horace, M.D., D.T.M. Meharry Med. College, Nashville 8, Tenn. *Prof. of Surgery (Exptl. Oncology) and Director.* (**6,** 1943)

Goldin, Abraham, Ph.D. Natl. Cancer Inst., Lab. of Chem. Pharmacology, NIH, Bethesda 14, Md. *Biologist.* (**1,** 1951; **3,** 1956)

Goldman, David E., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. (**1,** 1951)

Goldman, Dexter S., Ph.D. VA Hosp., Madison 5, Wis. *Chief Biochemist; Asst. Prof., Inst. for Enzyme Research.* (**2,** 1955)

Goldring, William, M.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Assoc. Prof. of Medicine.* (**1,** 1939)

Goldsmith, E. D., Ph.D. New York Univ., 342 26th St., New York City 10. *Prof. of Histology, Grad. School of Arts and Sciences; Prof. of Histology and Research Coordinator, College of Dentistry.* (**1,** 1950)

Goldsmith, Grace A., M.D. Tulane Univ. School of Medicine, New Orleans, La. *Prof. of Medicine.* (**5,** 1943)

Goldstein, Avram, M.D. Stanford Univ., Dept. of Pharmacology, Stanford, Calif. *Prof. and Exec. Head of Dept.* (**3,** 1948)

Goldstein, M. S., M.D. Michael Reese Hosp., 29th St. and Ellis Ave., Chicago 16, Ill. *Assoc. Dir., Dept. of Metabolic and Endocrine Research; Lecturer, Univ. of Chicago, Dept. of Physiology.* (**1,** 1954)

Goldthwait, David A., M.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Member.* (**2,** 1957)

Goldwasser, Eugene, Ph.D. Univ. of Chicago, Argonne Cancer Research Hosp., Chicago 37, Ill. *Research Assoc.* (**2,** 1956)

Gollan, Frank, M.D. Veterans Admin. Hospital, Research Lab., Nashville, Tenn. *Dir., Research.* (**1,** 1950)

Golub, Orville Joseph, Ph.D. Bio-Science Labs., Inc., 2231 S. Carmelina Ave., Los Angeles 64, Calif. *Vice Pres.* (**6,** 1944)

Good, Robert A., M.D. Univ. of Minnesota, Dept. of Pediatrics, Minneapolis 14. *Amer. Legion Mem. Heart Research Prof. of Pediatrics.* (**4,** 1956; **6,** 1957)

Goodale, Walter T., M.D. Kensington, E. Kingston R.F.D., N. H. *Clinical Assoc., Harvard Med. School; Sr. Assoc. in Medicine, Peter Bent Brigham Hospital.* (**1,** 1949)

Goodall, McChesney, M.D., Ph.D. Duke Univ. Med. School, Durham, N. C. *Prof. of Exptl. Surgery; Established Investigator, Amer. Heart Assn.* (**1,** 1956)

Goodman, Howard C., M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Surgeon (R), PHS.* (**1,** 1957)

Goodman, Irving, Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. *Sr. Research Chemist.* (**2,** 1954)

Goodman, Louis Sanford, M.D. Univ. of Utah College of Medicine, Salt Lake City 1. *Prof. of Pharmacology and Chairman of Dept. of Pharmacology.* (**1,** 1946; **3,** 1937)

Goodman, Morris, Ph.D. Detroit Inst. of Cancer Research, 4811 John R St., Detroit 1, Mich. *Research Assoc.* (**6,** 1953)

Goodner, Kenneth, Ph.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Bacteriology and Immunology.* (**6,** 1932)

Goodpasture, Ernest William, M.D. Armed Forces Inst. of Pathology, Washington 25, D. C. *Scientific Dir. of Pathology.* (**4,** 1923)

Goranson, Ewald S., Ph.D. Ontario Cancer Inst., Toronto, Canada. (**1,** 1952)

Gordon, Albert S., Ph.D. New York Univ., Grad. School of Arts and Sciences, New York City 3. *Prof. of Biology.* (**1,** 1942)

Gordon, Archer S., M.D., Ph.D. Univ. of Illinois College of Medicine, Dept. of Clinical Science, Chicago. *Research Assoc.* (**1,** 1953)

Gordon, Francis B., Ph.D., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Supervising Bacteriologist.* (**4,** 1947)

Gordon, Harry H., M.D. Sinai Hospital of Baltimore, Monument St. and Rutland Ave., Baltimore 5, Md. *Pediatrician-in-Chief.* (**5,** 1940)

Gordon, Irving, M.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Prof. and Chairman of Dept. of Med. Microbiology.* (**6,** 1943)

Gordon, William G., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist, in Charge Protein Structure Unit.* (**2,** 1939)

Gorham, John R., Ph.D. Washington State College, Pullman. *Veterinarian, Animal Disease and Parasite Research, USDA Agricultural Research Service.* (**4,** 1953; **6,** 1952)

Gortner, Ross Aiken, Jr., Ph.D. Wesleyan Univ., Shanklin Lab., Middletown, Conn. *Prof. of Biochemistry.* (**5,** 1947)

Gortner, Willis A., Ph.D. Pineapple Research Inst. of Hawaii, Honolulu, T. H. *Head of Dept. of Chemistry.* (**2,** 1947)

Goss, Harold, Ph.D. Univ. of California College of Agriculture, Davis. *Prof. of Animal Husbandry.* (**2,** 1936; **5,** 1933)

Gosselin, Robert E., Ph.D., M.D. Dartmouth Med. School, Hanover, N. H. *Prof. of Pharmacology; Toxicologist, Mary Hitchcock Clinic.* (**1,** 1955; **3,** 1957)

Goth, Andres, M.D. Univ. of Texas, Southwestern Med. College, 5323 Harry Hines Blvd., Dallas 19. *Prof. of Pharmacology and Head of Dept.* (**3,** 1947)

Gottschalk, Carl W., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Asst. Prof. of Medicine.* (**1,** 1956)

Gottshall, Russell Y., Ph.D. Michigan Dept. of Health, Div. of Labs., Lansing. *Bacteriologist.* (**6,** 1939)

Goudsmit, Arnoldus, M.D., Ph.D. 2218 Market St., Youngstown 7, Ohio. (**1,** 1940)

Gould, Bernard Sidney, Ph.D. Massachusetts Inst. of Technology, Div. of Biochemistry, Cambridge. *Assoc. Prof.* (**2,** 1956)

Gould, R. Gordon, Ph.D. Los Alamos Scientific Lab., Los Alamos, N. M. *Staff Member, Health Div.* (**2,** 1949)

Gourley, Desmond R. H., Ph.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Assoc. Prof.* (**1,** 1951; **3,** 1954)

Govier, William M., M.D. Schering Corp., Research Div., Bloomfield, N. J. *Dir., Dept. of Pharmacology.* (**3,** 1944)

Gowdey, Charles W., Ph.D. Univ. of Western Ontario Med. School, Dept. of Pharmacology, London, Ontario, Canada. *Assoc. Prof.* (**3,** 1950)

Grabar, Pierre, Ph.D., D.Sc. Institut Pasteur, Paris, France. *Chef de Service de Biochimie Microbienne.* (**6,** 1957)

Grabfield, G. Philip, M.D. 15 Hutchinson St., Milton 87, Mass. (**3R,** 1923)

Grady, Hugh G., M.D. Seton Hall College of Medicine, Jersey City 4, N. J. *Prof. of Pathology.* (**4,** 1940)

Graef, Irving, M.D. New York Univ., Post-Grad. Med. School, New York City. *Assoc. Prof. of Clin. Medicine.* (**4,** 1941)

Grafflin, Allan L., M.D. Henry Ford Hosp., Detroit 2, Mich. *Resident in Ophthalmology.* (**1,** 1954)

Graham, Claire E., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago, Ill. *Dir. of Research.* (**2,** 1948; **5,** 1951)

Graham, Clarence H., Ph.D. Columbia Univ., New York City 27. *Prof. of Psychology.* (**1,** 1933)

Graham, Helen Tredway, Ph.D. Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Prof. of Pharmacology, Washington Univ. School of Medicine.* (**1,** 1933; **3,** 1931)

Graham, John Borden. Univ. of North Carolina, Chapel Hill. *Assoc. Prof. of Pathology.* (**4,** 1953)

Graham, W. Donald, Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Lab., Tunney's Pasture, Ottawa, Canada. *Chemist.* (**3,** 1953)

Grande, Francisco, M.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Stadium Gate 27, Minneapolis 14. *Assoc. Prof.* (**1,** 1957)

Granick, S., Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Assoc. Prof.* (**2,** 1949)

Grant, R. Lorimer, Ph.D. Food and Drug Admin., Div. of Pharmacology, Dept. of Health, Education and Welfare, Washington 25, D. C. *Pharmacologist.* (**2,** 1938)

Grant, Rhoda, Ph.D. Univ. of Illinois Med.

College, Clinical Science Dept., 1853 West Polk St., Chicago 12, Ill. *Research Assoc.* (1, 1949)

Grant, Ronald, Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Professor* (1, 1950)

Grant, Wilson Clark, Ph.D. American Cyanamid Research Div., Pearl River, N. Y. *Head, Dept. of Physiology.* (1, 1949)

Grau, Charles R., Ph.D. Univ. of California, Dept. of Poultry Husbandry, Davis. *Assoc. Prof. of Poultry Husbandry and Assoc. Nutritionist in Exper. Station.* (5, 1949)

Grauer, Robert C., M.D. Allegheny General Hospital, Pittsburgh, Pa. *Dir. of William H. Singer Memorial Research Lab.; Asst. Prof. of Medicine, School of Medicine, Univ. of Pittsburgh.* (4, 1941)

Gray, Edward LeB., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Pharmacology and Toxicology, Rochester 20, N. Y. *Associate.* (1, 1951)

Gray, Grace W., Ph.D. Marquette Univ. Med. School, Dept. of Pharmacology, Milwaukee 3, Wis. *Asst. Prof.* (3, 1956)

Gray, John S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. and Chairman of Dept. of Physiology.* (1, 1937)

Gray, M. Geneva, Ph.D. U. S. Quartermaster Research and Engineering Command, Special Projects Br., Pioneering Research Div., Natick, Mass. *Pharmacologist.* (3, 1946)

Gray, Stephen W., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Anatomy.* (1, 1948)

Gray, William D., Ph.D. American Cyanamid Co., Exptl. Therapeutic Research Sec., Pearl River, N. Y. *Head, Dept. of Exptl. Pharmacology.* (3, 1955)

Graybiel, Ashton, M.D. U. S. Naval School of Aviation Medicine, Naval Air Station, Pensacola, Fla. *Captain, MC, USN; Dir. of Research.* (1, 1948)

Greeley, Paul O., Ph.D., M.D. Univ. of Southern California Med. School, Univ. Park, Los Angeles. *Dir., Student Health Service.* (1, 1940)

Green, Arda Alden, M.D. McCollum Pratt Inst., Johns Hopkins Univ., Baltimore 18, Md., *Research Assoc.* (2, 1932)

Green, Daniel M., M.D. 8877 Ladue Rd., St. Louis 24, Mo. *Dir. of Research, Nepera Chemical Co., Inc.* (1, 1948; 3, 1942)

Green, David E., Ph.D. Univ. of Wisconsin, Inst. of Enzyme Research, 1702 University Ave., Madison 5. *Prof. of Enzyme Chemistry.* (2, 1941)

Green, Harold David, M.D., D.Sc. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Prof. and Dir. of Dept. of Physiology and Pharmacology.* (1, 1936; 3, 1945)

Green, Harry, Ph.D. Wi Ellsye Hosp., Dept. of Research, Philadelphia 30, Pa. *Chief, Biochemical Research.* (2, 1956)

Green, John D., M.D. Univ. of California at Los Angeles, Dept. of Anatomy, Los Angeles 24. *Professor.* (1, 1954)

Green, Ray E., M.D. Univ. of Kansas Med. Center, Kansas City 12. *Assoc. Prof. of Pharmacology.* (3, 1952)

Green, Robert Holt, M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Clin. Prof. of Medicine.* (6, 1949)

Greenberg, David Morris, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Prof. and Chairman of Dept.* (2, 1927)

Greenberg, G. Robert, Ph.D. Univ. of Michigan Medical School, Dept. of Biological Chemistry, Ann Arbor. *Professor.* (2, 1952)

Greenberg, Joseph, M.D. Long Island Jewish Hosp., Dept. of Nuclear Medicine, New Hyde Park, N. Y. *Chief; Research Collaborator, Brookhaven Natl. Lab.* (1, 1957)

Greenberg, Louis, Ph.D. Lab. of Hygiene, Dept. of Natl. Health and Welfare, 45 Spencer St., Ottawa, Canada. *Chief, Biologics Control Labs.* (6, 1953)

Greenberg, Louis D., Ph.D. Univ. of California Med. Center, 2nd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Exper. Pathology, Univ. of California School of Medicine.* (2, 1946)

Greenberg, Ruven, Ph.D. Univ. of Illinois Med. School, Dept. of Physiology, Chicago. *Assoc. Prof.* (1, 1950)

Greenberg, Samuel M., Ph.D. Smith, Kline & French Labs., Biochemistry Sec., Philadelphia 1, Pa. *Sr. Research Scientist.* (5, 1954)

Greene, Carl Hartley, Ph.D., M.D. 401 Clinton Ave., Brooklyn 38, N. Y. *Assoc. Prof. of Clin. Medicine, New York Univ. Post-Grad. Med. School.* (1, 1921; 2, 1922; 4, 1924)

Greene, Harry S. N., M.D., C.M. Yale Univ. School of Medicine, Dept. of Pathology, New Haven, Conn. *Anthony N. Brady Prof. of Pathology.* (4, 1937)

Greene, James Alexander, M.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston, Tex. *Prof. of Medicine Faculty.* (1, 1939)

Greengard, Harry, Ph.D., M.D. 1150 No. State St., Chicago 10, Ill. (1, 1939)

Greenstein, Jesse P., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chief Biochemist.* (2, 1935)

Greenwald, Isidor, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City. *Prof. Emeritus, Biological Chemistry.* (2R, 1912; 5R, 1933)

Greenwood, Delbert A., Ph.D. Utah State Univ., Box 163, Logan. *Prof. of Biochemistry and Pharmacology.* (3, 1950)

Greep, Roy O., Ph.D. Harvard School of Dental

Medicine, 25 Shattuck St., Boston 15, Mass. *Dean and Prof. of Anatomy; Acting Head of Dept.* (**1**, 1940)

Greer, C. M., M. S. Vanderbilt Univ., Nashville 5, Tenn. *Instr. in Chemistry.* (**3**, 1938)

Gregersen, Magnus I., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Dalton Prof. of Physiology.* (**1**, 1933)

Gregg, Donald Eaton, Ph.D., M.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Cardiorespiratory Diseases.* (**1**, 1933)

Gregory, John Delafield, Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Assoc. Prof.* (**2**, 1954)

Gregory, John E., M.D. Rowan Memorial Hosp., Salisbury, N. C. *Pathologist.* (**6**, 1948)

Gregory, Raymond L., Ph.D., M.D. Univ. of Texas School of Medicine, 816 Strand, Galveston. *Prof. of Medicine.* (**1**, 1945)

Greif, Roger L., M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Physiology.* (**1**, 1956)

Greig, Margaret E., Ph.D. Upjohn Co., Research Div., Kalamazoo 99, Mich. *Sr. Research Scientist.* (**3**, 1946)

Greiner, Theodore H., M.D. Baylor Univ. Med. College, Houston 25, Tex. *Asst. Prof. of Pharmacology.* (**3**, 1951)

Greisheimer, Esther M., Ph.D., M.D. Temple Univ. Hosp., 3401 N. Broad St., Philadelphia 40, Pa. *Research Prof. of Anesthesiology.* (**1**, 1925)

Grenell, Robert G., Ph.D. Univ. of Maryland, School of Medicine, Psychiatric Inst., Baltimore 1. *Assoc. Prof. Psychiatric Research.* (**1**, 1945)

Griffin, A. Clark, Ph.D. Univ. of Texas, M. D. Anderson Hosp., Dept. of Biochemistry, Houston. *Dept. Head.* (**2**, 1950)

Griffin, Angus, Ph.D. George Washington Univ. School of Medicine, 1335 H St., N. W., Washington 5, D. C. *Prof. of Bacteriology.* (**6**, 1940)

Griffin, Donald R., Ph.D. Harvard Univ., Dept. of Biology, Cambridge 38, Mass. *Professor.* (**1**, 1951)

Griffith, Fred R., Jr., Ph.D. Univ. of Buffalo Med. School, 3435 Main St., Buffalo, N. Y. *Prof. Emeritus, Dept. of Physiology.* (**1R**, 1923; **5R**, 1933)

Griffith, Wendell H., Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Chairman of Dept.* (**2**, 1923; **5**, 1934)

Griffitts, James J., M.D. Dade Reagents, Inc., 1851 Delaware Pkwy., Miami, Fla. *President.* (**6**, 1952)

Grimson, Keith S., M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Surgery.* (**1**, 1943; **3**, 1949)

Grindlay, John H., M.D. Mayo Clinic, Rochester, Minn. (**1**, 1945)

Grisolia, Santiago, M.D. Univ. of Kansas Med. Center, Dept. of Medicine, Kansas City 3. *Assoc. Prof. of Medicine and Biochemistry; Established Investigator, Am. Heart Assn.* (**2**, 1952)

Groat, Richard A., Ph.D., M.D. 519 Arbor Rd., Winston-Salem, N. C. (**1**, 1945)

Grob, David, M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (**1**, 1951; **3**, 1956)

Grodins, Fred S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. of Physiology.* (**1**, 1945)

Grollman, Arthur, M.D., Ph.D. Univ. of Texas Southwestern Med. School, Dallas 19. *Prof. of Exptl. Medicine and Pharmacology.* (**1**, 1928; **3**, 1933)

Groschke, Albert C., Ph.D. The Borden Co., 350 Madison Avenue, New York City. *Technical Dir., Feed Supplements Dept.* (**5**, 1952)

Gross, Erwin G., Ph.D., M.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Pharmacology.* (**1**, 1927; **2**, 1923; **3**, 1927)

Gross, J., M.D., C.M., Ph.D. State Univ. of New York College of Medicine at New York City, 450 Clarkson Ave., Brooklyn 3. (*On leave to Hebrew Univ.—Hadassah Med. School, Jerusalem, Israel*) (**1**, 1950)

Gross, Jerome, M.D. Massachusetts Gen. Hosp., Dept. of Medicine, Boston, Mass. *Assoc. Biologist; Asst. Prof. of Medicine, Harvard Med. School.* (**1**, 1955)

Gross, Paul, M.D. Mellon Inst., Industrial Hygiene Fndn., Pittsburgh 13, Pa. *Research Pathologist.* (**4**, 1955)

Gross, Paul Randolph, Ph.D. New York Univ., New York City 53. *Asst. Prof. of Biology, College of Arts and Science and Grad. School of Arts and Science.* (**1**, 1957)

Gross, Robert E., M.D. Children's Hosp., 300 Longwood Ave., Boston 15, Mass. *Surgeon-in-Chief; Ladd Prof. of Children's Surgery, Harvard Med. School.* (**4**, 1940)

Grossman, Jacob, M.D. Montefiore Hosp., Med. Div., New York City 67. *Research Assoc.* (**1**, 1956)

Grossman, Morton Irvin, Ph.D., M.D. VA Ctr., Los Angeles 25, Calif. *Chief, Section on Gastroenterology.* (**1**, 1946)

Groupe, Vincent, Ph.D. Inst. of Microbiology, Rutgers Univ., New Brunswick, N. J. *Member; Prof. of Virology.* (**6**, 1946)

Grubbs, Robert C., M.D. Ohio State Univ., Co-

lumbus. *Prof. and Vice-Chairman of Physiology.* (1, 1950)

Gruber, Charles M., M.D., Ph.D. 1313 College Ave., Redlands, Calif. *Emeritus Prof. and Head of Dept. of Pharmacology, Jefferson Med. College.* (1R, 1914; 3R, 1919)

Gruber, Charles M., Jr., M.D., D.Sc. Lilly Lab. for Clin. Research, Indianapolis Gen. Hosp., Indianapolis 7, Ind. (3, 1948)

Gruhzit, Carl C., M.D., Ph.D. Univ. of Hong Kong, Dept. of Physiology, Hong Kong. (3, 1954)

Gruhzit, Oswald M., M.D. 580 Hampton Rd., Grosse Pointe 36, Mich. *Research in Pathology and Pharmacology.* (4, 1928)

Grumbach, Leonard, Ph.D. Sterling-Winthrop Research Inst., Pharmacology Sec., Rensselaer, N. Y. *Assoc. Member and Group Leader.* (1, 1957)

Grundfest, Harry, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (1, 1932)

Gubler, Clark J., Ph.D. 1914 Rowley Ave., Madison, Wis. (5, 1951)

Gudernatsch, Fredrick, Ph.D., Sc.D. Cornell Univ. Med. College, Arctic Aeromed. Bibliographic Service, New York City 21. (1, 1930)

Guerra, Francisco, M.D. Facultad de Medicina, Univ. Nacional de Mexico, Mexico, D. F. *Prof. Titular de Carrera en Farmacologia.* (3, 1947)

Guerrant, N. B., Ph.D. Pennsylvania State Univ., University Park. *Prof. of Biochemistry.* (2, 1934; 5, 1933)

Guest, George Martin, M.D. Children's Hospital, Cincinnati 29, Ohio. *Prof. of Research Pediatrics, Univ. of Cincinnati College of Medicine and Grad. School.* (2, 1933)

Guest, Maurice Mason, Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Prof. and Chairman of Dept.* (1, 1946)

Guillemin, Roger, M.D., Ph.D. Baylor Univ. College of Medicine, Houston 25, Texas. *Assoc. Prof. of Physiology.* (1, 1957)

Guillemin, Victor, Jr., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biophysics.* (1, 1952)

Gulick, Addison, Ph.D. 3 Concord Ave., Suite 62, Cambridge 38, Mass. (1R, 1915; 5R, 1933)

Gunn, Francis D., M.D., Ph.D. Latter Day Saints Hosp., 325-8th Ave., Salt Lake City, Utah. *Pathologist; Clin. Prof. of Pathology, Univ. of Utah.* (4, 1938)

Gunsalus, Irwin C., Ph.D. Univ. of Illinois, 415 East Chemistry, Urbana. *Prof. of Biochemistry.* (2, 1946)

Gurd, Frank Ross, Ph.D. Cornell Univ. Med. College, New York City 21. *Asst. Prof. of Clin. Biochemistry; Asst. Dir., Bur. of Med. Research, Equitable Life Assurance Soc.* (2, 1952)

Gurin, Samuel, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. and Chairman, Dept. of Biochemistry.* (2, 1938)

Gustus, Edwin L., Ph.D. Brewing Industries Research Inst., 209 So. La Salle St., Chicago 4, Ill. (2, 1934)

Guthrie, Charles Claude, M.D., Ph.D. 806 Hill Crest Ave., Columbia, Mo. *Prof. Emeritus of Physiology and Pharmacology, Univ. of Pittsburgh.* (1R, 1905; 3R, 1909)

Gutman, Alexander B., M.D. Mt. Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Med. Dir.; Prof. of Medicine, Columbia Univ.* (2, 1947)

Gutmann, Helmut R., M.D. Veterans Admin. Hospital, Radioisotope Unit, Minneapolis 17, Minn. *Biochemist; Asst. Prof., Dept. of Physiological Chemistry, Univ. of Minnesota Med. School.* (2, 1952)

Guttman, Rita M., Ph.D. Brooklyn College, Brooklyn, N. Y. *Asst. Prof. of Biology.* (1, 1946)

Guyton, Arthur C., M.D. Univ. of Mississippi School of Medicine, Dept. of Physiology and Biophysics, Jackson. *Prof. and Chairman of Dept.* (1, 1949)

György, Paul, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St., Philadelphia 4. *Prof. of Pediatrics.* (2, 1938; 5, 1939)

Haag, Harvey B., M.D. Med. College of Virginia, Richmond 19. *Prof. of Pharmacology.* (3, 1934)

Haag, J. R., Ph.D. Oregon State College, Agricultural Exper. Station, Corvallis. *Chemist.* (2, 1947; 5, 1941)

Haas, Erwin, Ph.D. Mt. Sinai Hospital, 1800 E. 105th St., Cleveland 6, Ohio. *Sr. Research Chemist.* (2, 1946)

Habel, Karl, M.D. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Med. Dir.* (6, 1952)

Haberman, Sol, Ph.D. Baylor Univ. Hosp., Baylor Univ. College of Dentistry, 3500 Gaston Ave., Dallas, Tex. *Prof. of Bacteriology and Immunology.* (6, 1944)

Habermann, Robert T., D.V.M. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Sr. Veterinarian.* (4, 1956)

Hack, Marvin H., Ph.D. Tulane Univ., Dept. of Medicine, New Orleans, La. *Assoc. Prof.* (2, 1954)

Hackel, Donald B. City Hospital, Cleveland 9, Ohio. *Assoc. Prof. of Pathology, Western Reserve Univ.* (1, 1955; 4, 1953)

Haddy, Francis J., M.D., Ph.D. VA Research Hosp., 333 E. Huron St., Chicago 11, Ill. *Asst. Prof., Northwestern Univ., Dept. of Physiology and Medicine.* (1, 1954)

Hadidian, Zareh, Ph.D. Tufts Univ. School of Medicine, Boston, Mass. *Assoc. Prof.* (1, 1945)

Hafkenschiel, Joseph H., Jr., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Assoc. in Medicine; Prin. Investigator, Cardiopulmonary Unit, Lankenau Hosp.* (**1,** 1950; **3,** 1952)

Hafkesbring, H. Roberta, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia. *Prof. of Physiology.* (**1,** 1931)

Hagen, Paul B., M.B. Harvard Med. School, Boston 15, Mass. *Asst. Prof., Pharmacology.* (**3,** 1956)

Haggard, Howard W., M.D. P.O. Box 191, Tavernier, Fla. (**1R,** 1919; **2,** 1920)

Hahn, Paul F., Ph.D. Meharry Med. College, Nashville, Tenn. *Dir. of Cancer Research Labs.; Prof. of Exper. Oncology.* (**1,** 1946; **4,** 1939)

Haig, Charles, Ph.D. New York Med. College, Dept. of Physiology and Pharmacology, New York City 29. *Prof. of Physiology.* (**1,** 1942)

Haimovici, Henry, M.D., 105 E. 90th St., New York City 28. *Attending Vascular Surgeon, Montefiore Hosp.* (**1,** 1950)

Haines, William J., Ph.D. 2147 Marston Lane, Flossmoor, Ill. *Technical Dir., Armour Labs.* (**2,** 1953)

Haist, Reginald E., M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology.* (**1,** 1943)

Hajek-Nichols, Norma M., Ph.D. Med. College of Virginia, Dept. of Physiology, Richmond. *Asst. Prof.* (**1,** 1954)

Halberg, Franz, M.D. Univ. of Minnesota Med. School, Dept. of Pathology, Div. of Cancer Biology, Minneapolis 14. *Assoc. Prof.; Dir. of Research, Cambridge State School and Hosp.* (**1,** 1955)

Halbert, Seymour P., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Microbiology.* (**6,** 1947)

Haldi, John, Ph.D. Dept. of Physiology, Emory University, Ga. *Professor.* (**1,** 1928)

Hale, William M., M.D. Univ. of Tennessee College of Medicine, Cancer Research Lab., 3 N. Dunlap, Memphis. *Prof. of Bacteriology.* (**4,** 1941; **6,** 1935)

Hale, Worth, M.D. Silver St., Monson, Mass. (**1R,** 1908; **3R,** 1908)

Haley, Thomas J., Ph.D. 12007 Thermo St., Los Angeles 34, Calif. *Chief, Div. of Pharmacology and Toxicology, A. E. Project, Med. School, Univ. of California.* (**3,** 1949)

Hall, Charles E., Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Professor.* (**1,** 1949)

Hall, F. G., Ph.D. Duke Univ. School of Medicine, Dept. of Physiology and Pharmacology, Durham, N. C. *Prof. of Physiology and Chairman of Dept.* (**1,** 1937)

Hall, John F., Jr., M.A. 368 Wendell Lane, Dayton 3, Ohio. *Research Physiologist, USAF Aero Med. Lab., Wright-Patterson AFB.* (**1,** 1957)

Hall, Victor E., M.D. 506 Hanley Pl., Los Angeles 49, Calif. *Prof. of Physiology, Univ. of California School of Medicine.* (**1,** 1934)

Hall, W. Knowlton, Ph.D. Med. College of Georgia, 1465 Gwinnett St., Augusta. *Prof. of Biochemistry.* (**2,** 1948)

Hallenbeck, George Aaron, Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Asst. Prof. of Physiology and Surgery.* (**1,** 1946)

Halpert, Béla, M.D. Veterans Admin. Hospital, 2002 Holcombe Blvd., Houston 31, Texas. *Chief, Lab. Service; Prof. of Pathology, Baylor Univ. College of Medicine.* (**4,** 1936)

Halstead, Ward C., Ph.D., Univ. of Chicago, Dept. of Medicine, Sec. of Med. Psychology, Chicago, Ill. *Prof. of Exper. Psychology; Dir. of Med. Psychology.* (**1,** 1942)

Halsted, James A., M.D. VA Hosp., Syracuse, N. Y. *Dir., Professional Services; Assoc. Prof. Dept. of Medicine, State Univ. of New York College of Medicine.* (**4,** 1956)

Ham, Arthur W., M.B. Ontario Cancer Inst., Div. of Biological Research, 500 Sherbourne St., Toronto 5, Canada. *Div. Head.* (**4,** 1939)

Hambourger, Walter E., Ph.D., M.D. G. D. Searle & Co., P.O. Box 5110, Chicago 80, Ill. *Chief Pharmacologist.* (**3,** 1934)

Hamilton, Bengt L. K., M.D. 8311 Drexel Ave., Chicago 19, Ill. *Med. Dir., PHS(R).* (**2,** 1925)

Hamilton, Clara E., Ph.D. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. (**1,** 1952)

Hamilton, James B., Ph.D. State Univ. of New York, College of Medicine at New York City, Dept. of Anatomy, 450 Clarkson Ave., Brooklyn 3. *Prof. of Anatomy.* (**1,** 1938)

Hamilton, John D., M.D. Banting Inst., Toronto 2, Canada. *Prof. and Head of Pathology, Univ. of Toronto.* (**4,** 1957)

Hamilton, Lyle H., Ph.D. Wood VA Hosp., Med. Research Service, Milwaukee, Wis. *Chief, Physiology Soc.* (**1,** 1957)

Hamilton, Paul B., M.D., Ph.D. Alfred I. duPont Inst., Nemours Foundation, Rockland Rd., Wilmington 99, Del. *Chief of Biochemistry.* (**2,** 1946)

Hamilton, Tom R., M.D. Kansas Univ. Med. Center, Kansas City 3. *Prof. of Microbiology and Pathology; Chairman of Med. Microbiology.* (**4,** 1950)

Hamilton, Tom S., Ph.D. Univ. of Illinois, 107 Mumford Hall, Urbana. *Prof. of Animal Nutrition; Assoc. Dir., Ill. Agricultural Exper. Sta.* (**2,** 1937; **5,** 1938)

Hamilton, W. F., Ph.D. Med. College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1924)

Hammon, William McD., M.D., Dr.P.H. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Prof. of Epidemiology; Head, Dept. of Epidemiology and Microbiology, Grad. School of Public Health.* (**4,** 1944; **6,** 1946)

Hammond, Carolyn W., Ph.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Research Assoc.* (**4,** 1954)

Hampel, C. W., Ph.D. New York Univ. College of Dentistry, 209 E. 23rd St., New York City 10. *Prof. of Physiology and Biophysics.* (**1,** 1936)

Hampton, John K., Jr., Ph.D. Tulane Univ. School of Medicine, Dept. of Physiology, New Orleans 18, La. *Assoc. Prof.* (**1,** 1954)

Hamre, Dorothy, Ph.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Research Assoc.* (**6,** 1948)

Hanahan, Donald J., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1952)

Hand, David B., Ph.D. New York State Agricultural Exper. Station, Geneva (Cornell Univ.). *Head, Dept. of Food Science and Technology and Prof. of Biochemistry.* (**2,** 1947)

Handford, Stanley Wing, Ph.D. Naval Med. Research Inst., Bethesda, 14, Md. (**1,** 1954)

Handler, Alfred H., Ph.D. Children's Med. Ctr., Boston, Mass. *Research Assoc.* (**4,** 1957)

Handler, Philip, Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Biochemistry and Nutrition.* (**2,** 1944; **5,** 1946)

Handley, Carroll A., Ph.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Houston 25, Tex. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1942)

Hanes, Charles S., Ph.D. Univ. of Toronto, Toronto, Canada. *Prof. of Biochemistry.* (**2,** 1954)

Haney, Hance F., Ph.D., M.D. Univ. of Oregon Med. School, Portland. *Prof. of Medicine.* (**1,** 1939)

Hanger, Franklin M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Medicine.* (**6,** 1930)

Hanke, Martin E., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1925)

Hanke, Milton Theo, Ph.D. 7550 S. Green St., Chicago, Ill. *Research Consultant, Biochemistry and Nutrition.* (**2,** 1919)

Hankes, Lawrence V., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Biochemist; Head of Clin. Chemistry.* (**2,** 1955)

Hanks, John H., Ph.D. Harvard Univ. Med. School, Boston, Mass. *Dept. of Bacteriology; Bacteriologist of the Leonard Wood Memorial.* (**6,** 1935)

Hanna, Calvin, Ph.D. Univ. of Vermont School of Medicine, Dept. of Pharmacology, Burlington. *Asst. Prof.* (**3,** 1955)

Hansard, Samuel L., Ph.D. Louisiana State Univ., Dept. of Animal Industry, Baton Rouge. *Animal Nutritionist.* (**5,** 1955)

Hansen, Arild E., M.D. Univ. of Texas Med. School, Galveston. *Prof. and Chairman of Dept. of Pediatrics; Dir. of Univ. of Texas Child Health Program.* (**4,** 1941; **5,** 1942)

Hansen, Eder Lindsay, Ph.D. 561 Santa Barbara Rd., Berkeley 7, Calif. *Research Assoc. in Pharmacology.* (**3,** 1951)

Hansen, Roger G., Ph.D. Univ. of Illinois, Dairy Science Dept., Urbana. *Professor.* (**2,** 1952)

Hardenbergh, Esther, S.D. Natl. Naval Med. Center, Naval Med. Research Inst., Div. of Physiology, Bethesda 14, Md. *Head, Circulatory Studies Branch.* (**1,** 1951)

Hardy, James D., M.D. Univ. of Mississippi Med. Ctr., Jackson. *Prof. and Chairman, Dept. of Surgery; Surgeon-in-Chief, Univ. Hosp.* (**1,** 1951)

Hardy, James Daniel, Ph.D. Naval Air Development Center, Aviation Med. Lab., Johnsville, Pa. *Dir. of Research; Prof. of Physiology, Univ. of Pennsylvania.* (**1,** 1939)

Hardy, Mary, D.Sc. The Chapin School, 100 East End Ave., New York City. *Teacher of Biology and Physics.* (**1,** 1933)

Hare, Kendrick, Ph.D., M.D. Med. College of Alabama, Birmingham. *Prof. of Pediatrics and Pharmacology.* (**1,** 1938)

Harford, Carl G., M.D. Washington Univ. School of Medicine, Dept. of Internal Medicine, Div. of Infectious Diseases, St. Louis, Mo. *Assoc. Prof. of Medicine.* (**6,** 1948)

Harger, R. N., Ph.D. Indiana Univ. School of Medicine, Indianapolis 7. *Prof. of Biochemistry and Toxicology.* (**2,** 1938; **3,** 1949)

Harkin, James C., M.D. Washington Univ. School of Medicine, Dept. of Pathology, St. Louis 10, Mo. *Instructor.* (**4,** 1957)

Harkins, Henry N., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer of Dept. of Surgery.* (**1,** 1942)

Harman, John W., M.D. St. Kevin's Hosps., Dublin, Ireland. *Dir. of Labs., Dept. of Pathology.* (**4,** 1951).

Harmon, Paul M., Ph.D. Indiana Univ., Bloomington. *Prof. and Chairman, Dept. of Physiology.* (**1,** 1930)

Harne, O. G. 8417 Merrymount Dr., Baltimore 7, Md. (**1R,** 1935)

Harned, Ben King, Ph.D. Mead Johnson & Co., Research Lab., Evansville 21, Ind. *Vice Pres. for Research.* (**2,** 1931; **3,** 1941)

Harper, Alfred E., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Asst. Prof* (**5,** 1955)

Harper, Harold A., Ph.D. Univ. of California Med. Ctr., San Francisco 22. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1955)

Harrington, William J., M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Assoc. Prof. of Medicine; Asst. Physician, Barnes Hosp.* (**4,** 1956)

Harris, Albert H., M.D. N. Y. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Asst. Dir. in charge of Diagnostic Labs. and Local Lab. Affairs.* (**6,** 1937)

Harris, Albert Sidney, Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 12. *Prof. and Chairman of Dept.* (**1,** 1939)

Harris, Charles, M.D. Temple Univ. Med. School, Fels Research Inst., Philadelphia, Pa. *Assoc. in Pathology (On leave to Univ. of Indonesia, Djakarta).* (**4,** 1956)

Harris, Daniel L., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Assoc. Prof.* (**2,** 1956)

Harris, Lorin E., Ph.D. Utah State Univ., Logan. *Prof. of Animal Husbandry.* (**5,** 1953)

Harris, Milton, Ph.D. Harris Research Labs., Inc., 1246 Taylor St., N.W., Washington 11, D. C. *President.* (**2,** 1939)

Harris, Paul N., M.D. Eli Lilly and Company, Div. of Pharmacology, Indianapolis 6, Ind. *Pathologist.* (**3,** 1948; **4,** 1955)

Harris, Philip L., Ph.D. Distillation Products Ind., 755 Ridge Rd. W., Rochester 3, N. Y. *Asst. Dir. of Research; Assoc. in Physiology, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1946; **5,** 1945)

Harris, Robert S., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biochemistry of Nutrition.* (**5,** 1941)

Harris, S. C., Ph.D. Northwestern Univ. Dental School, 311 E. Chicago Ave., Chicago 11, Ill. *Prof.; Chairman of Physiology and Pharmacology.* (**1,** 1947; **3,** 1952)

Harris, T. N., M.D. Children's Hospital of Philadelphia, Philadelphia, Pa. *Prof. of Immunology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1946)

Harris, William H., M.D. 1215 Lowerline St., New Orleans 18, La. *Emeritus Prof. of Pathology, Tulane Univ.* (**4,** 1925)

Harrison, Frank, Ph.D., M.D. Southwestern Med. School, Dallas 19, Texas. *Prof. of Anatomy and Assoc. Dean.* (**1,** 1941)

Harrison, Helen Coplan, Ph.D. Johns Hopkins Univ. School of Medicine, Dept. of Pediatrics, Baltimore 5, Md. *Research Assoc.* (**1,** 1957)

Harrison, James A., Ph.D. Temple Univ., Philadelphia 22, Pa. *Prof. of Biology.* (**6,** 1946)

Harrison, R. Wendell, Ph.D. 5541 Dorchester Ave., Chicago 37, Ill. *Prof. of Microbiology; Dean of Faculties and Vice Pres., Univ. of Chicago.* (**6,** 1934)

Harrison, Ross Granville, M.D., Ph.D. Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. Emeritus of Biology, Yale Univ.* (**1R,** 1906)

Harrow, Benjamin, Ph.D. City College of New York, Convent Ave. and 139th St., New York City. *Prof. of Chemistry.* (**2R,** 1927)

Hart, E. Ross, Ph.D. VA Hosp., VA Research Labs. in Neuropsychiatry, Pittsburgh 6, Pa. *Chief, Div. of Neurophysiology and Neuropharmacology.* (**3,** 1944)

Hart, J. Sanford, Ph.D. Natl. Research Labs., Biology Div., Ottawa 2, Canada. *Sr. Research Officer.* (**1,** 1955)

Hart, William M., Ph.D., M.D. Georgetown Univ., Washington 7, D. C. *Clinical Assoc. Prof., Ophthalmology and Special Lecturer in Physiology.* (**1,** 1945)

Harte, Robert A., B.S. Merck Sharp & Dohme Research Labs. Div., Merck & Co., Inc., West Point, Pa. *Exec. Asst. for Admin.* (**5,** 1953)

Hartline, H. K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1929)

Hartman, Arthur M., B.S. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Div. of Nutrition and Physiology, Beltsville, Md. *Biochemist.* (**5,** 1952)

Hartman, Carl G., Ph.D. 219 Norwood Ave., North Plainfield, N. J. *Prof., Emeritus, of Zoology and Physiology, Univ. of Illinois.* (**1,** 1921)

Hartman, Elizabeth Crofts, M.S. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda 14, Md. (**5,** 1949)

Hartman, F. W., M.D. 7508 Glenriddle Rd., Bethesda 14, Md. *Med. Research Advisor to Surgeon Gen., USAF.* (**4,** 1927)

Hartman, Frank Alexander, Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Prof. Emeritus.* (**1R,** 1916)

Hartman, Vivian Behrmann, Ph.D. 7508 Glenriddle Rd., Bethesda 14, Md. *Research Physiologist.* (**1,** 1948)

Hartmann, Alexis F., M.D. 500 S. Kingshighway, St. Louis, Mo. *Prof. of Pediatrics, Washington Univ. School of Medicine.* (**2,** 1932)

Hartroft, Walter Stanley, M.D., Ph.D. Washington Univ. Med. School, Dept. of Pathology, St. Louis 10, Mo. *Prof. and Chairman of Dept.* (**4,** 1950)

Harvey, A. McGehee, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician-in-Chief; Prof. of Medicine, Johns Hopkins Univ. Med. School.* (**1,** 1946; **3,** 1946)

Harvey, E. Newton, Ph.D., D. Sc. Princeton Univ., Guyot Hall, Princeton, N. J. *Prof. of Biology, Emeritus.* (**1R,** 1914; **2R,** 1916)

Harvey, Rodney B., M.D., Ph.D. Univ. of Utah, Dept. of Physiology, Salt Lake City. *Asst. Prof.* (**1,** 1956)

Harvey, Stewart C., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 12. *Assoc. Prof.* (**3,** 1951)

Hass, George, M.D. Presbyterian-St. Luke's Hospital of Chicago, Chicago, Ill. *Chairman, Rush Dept. of Pathology; Prof. of Pathology, Univ. of Illinois.* (**4,** 1939)

Hassett, Charles C., Ph.D. Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Entomology Br.* (**1,** 1954)

Hassid, William Z., Ph.D., Univ. of California, 337 Biochemistry-Virus Lab., Berkeley 4. *Prof. of Plant Biochemistry.* (**2,** 1946)

Hastings, A. Baird, Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Hamilton Kuhn Prof. of Biological Chemistry.* (**1,** 1927; **2,** 1921; **5,** 1940)

Hathaway, Milicent L., Ph.D. Agricultural Research Service, Human Nutrition Research Div., USDA, Washington 25, D. C. *Nutrition Specialist.* (**5,** 1945).

Hauck, Hazel M., Ph.D. Cornell Univ. College of Home Economics, Ithaca, N. Y. *Prof. of Food and Nutrition.* (**5,** 1941)

Haugaard, Niels, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Pharmacology.* (**2,** 1953)

Hauge, Sigfred M., Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Assoc. Prof.* (**2,** 1954; **5,** 1933)

Haurowitz, Felix, M.D., D.Sc. Indiana Univ., Bloomington. *Prof. of Chemistry.* (**2,** 1949; **6,** 1948)

Hausberger, Franz Xavier, M.D. Jefferson Med. College of Philadelphia, Dept. of Anatomy, Philadelphia 7, Pa. *Assoc. Prof.* (**1,** 1957)

Hausmann, Werner, D.Sc. American Cyanamid Co., Research Div., Pearl River, N. Y. (**2,** 1956)

Haven, Frances L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Assoc. in Biochemistry.* (**2,** 1941)

Hawk, Philip B., Ph.D. 750 W. 50th St., Miami Beach, Fla. (**1,** 1903; **2,** 1906)

Hawkins, J. E., Jr., Ph.D. New York Univ.-Bellevue Med. Ctr., Dept. of Otolaryngology, New York City 16. *Assoc. Prof.* (**1,** 1943)

Hawkins, W. W., Ph.D. Atlantic Regional Lab., Natl. Research Council, Halifax, N.S., Canada. *Assoc. Research Officer, Natl. Research Council of Canada.* (**2,** 1953)

Hawkins, William Bruce, M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Pathology.* (**4,** 1933)

Hawley, Estelle E., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pediatrics and Nutrition.* (**5,** 1935)

Hawn, Clinton van Zandt, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Pathologist-in-Chief; Assoc. Prof. of Pathology, Columbia Univ.* (**4,** 1948)

Hawthorne, Edward W., M.D., Ph.D. Howard Univ. College of Medicine, Dept. of Physiology, Washington 1, D. C. *Assoc. Prof. and Head of Dept.* (**1,** 1955)

Hay, Eleanor Clarke, Ph.D. 7 Greenhill Rd., Madison, N. J. (**1,** 1945)

Hayaishi, Osamu, M.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Pharmacology and Toxicology, NIH, Bethesda 14, Md. *Chief, Toxicology Sec.* (**2,** 1952)

Hayano, Mika, Ph.D. Worcester Foundation for Exper. Biology, Shrewsbury, Mass. *Research Biochemist.* (**2,** 1952)

Hayashi, Teru, Ph.D. Columbia Univ., 1324 Pupin Hall, New York City 27. *Prof. of Zoology.* (**1,** 1951)

Hayes, Sheldon P., Ph.D. Weber College, Dept. of Bacteriology, 3800 Harrison Ave., Ogden, Utah. *Head of Dept.* (**6,** 1953)

Hayman, J. M., Jr., M.D. Tufts Univ. School of Medicine, Boston 11, Mass. *Dean and Prof. of Medicine.* (**1,** 1928; **3,** 1932)

Haynes, Florence W., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Research Assoc. in Medicine.* (**1,** 1937)

Hays, Edwin Everett, Ph.D. R. J. Strasenburgh Co., 195 Exchange St., Rochester 14, N. Y. *Dir. of Research.* (**2,** 1946)

Hays, Harry W., Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Dir., Toxicological Information Ctr.* (**3,** 1949)

Haywood, Charlotte, Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1,** 1939)

Hazen, Elizabeth L., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Assoc. Bacteriologist (mycology).* (**6,** 1931)

Hazleton, Lloyd W., Ph.D. Box 333, Falls Church, Va. *Pres., Hazleton Labs.* (**3,** 1944)

Heagy, Fred Clark, M.D., Ph.D. Univ. of Western Ontario, Dept. of Biochemistry, Faculty of Medicine, London, Canada. *Asst. Prof.* (**2,** 1954)

Hearon, John Z., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Mathematician.* (**1,** 1951)

Hecht, Hans H., M.D. Salt Lake General Hosp., Salt Lake City, Utah. *Assoc. Prof. of Medicine, Univ. of Utah College of Medicine.* (**1,** 1952)

Hechter, Oscar M., Ph.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. *Member.* (**1,** 1945)

Hegnauer, Albert H., Ph.D. Boston Univ. School

of Medicine, Boston, Mass. *Prof. of Physiology.* (1, 1937)

Hegsted, David Mark, Ph.D. Harvard School of Public Health, 1 Shattuck St., Boston, Mass. *Assoc. Prof. of Nutrition.* (5, 1944)

Heidelberger, Charles, Ph.D. Univ. of Wisconsin, McArdle Memorial Lab., Madison 6. *Assoc. Prof. of Oncology.* (2, 1950)

Heidelberger, Michael, Ph.D. Rutgers Univ., Inst. of Microbiology, New Brunswick, N. J. *Visiting Prof. of Immunochemistry.* (2R, 1927; 6, 1935)

Heilbrunn, Lewis Victor, Ph.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Zoology.* (1, 1930)

Heim, J. William, Ph.D. 2366 S. Patterson Blvd., Dayton 9, Ohio. *Chief, Physiology Branch Aero-Med. Lab., Wright-Patterson AFB.* (1, 1936)

Heinbecker, Peter, M.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. of Clin. Surgery.* (1, 1930)

Heinle, Robert W., M.D. The Upjohn Co., Research Div., Kalamazoo, Mich. *Dir. of Biological Research.* (5, 1948)

Heinrich, Max A., Jr., Ph.D. Univ. of South Dakota, Dept. of Physiology and Pharmacology, Vermillion. *Asst. Prof.* (3, 1956)

Heinz, Erich, M.D. Tufts Univ. Med. School, Dept. of Biochemistry and Nutrition, Boston, Mass. *Assoc. Prof.* (2, 1955)

Helff, O. M., Ph.D. New York Univ., University Heights, New York City. *Assoc. Prof. of Biology.* (1, 1932)

Hellbaum, Arthur A., Ph.D., M.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Pharmacology.* (1, 1937; 3, 1945)

Hellebrandt, Frances Anna, M.D. RFD 3, Cable Lane, Athens, Ohio. (1R, 1933)

Heller, Carl G., M.D., Ph.D. Univ. of Oregon Med. School, Portland 1. *Assoc. Clinical Prof. of Medicine, Endocrinology Div.* (1, 1945)

Heller, John H., M.D. New England Inst. for Med. Research, Ridgefield, Conn. *Executive Director.* (1, 1955)

Heller, Victor G., Ph.D. Oklahoma State Univ., Dept. of Agric. Chemistry, Stillwater. *Emeritus Prof. and Head.* (2R, 1935; 5R, 1935)

Hellerman, Leslie, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (2, 1935)

Hellerstein, Herman Kopel, M.D. 2065 Adelbert Rd., Cleveland, Ohio. *Asst. Prof. of Medicine, Western Reserve Univ.; Dir., Work Classification Clinic, Cleveland Area Heart Society.* (1, 1957)

Helmer, Oscar Marvin, Ph.D. Lilly Lab. of Clin. Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Head of Dept. of Clin. Biochemistry.* (2, 1935)

Heming, Arthur E., Ph.D. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia 1, Pa. *Assoc. Dir. of Research, Research and Development Div.* (3, 1954)

Hemingway, Allan, Ph.D. Univ. of California School of Medicine, Dept. of Physiology, Los Angeles 24. *Professor.* (1, 1933)

Hendershot, Leland C., D.D.S., Ph.D. Dow Chemical Co., Biochemical Research Lab., Midland, Mich. *Pharmacologist.* (3, 1957)

Henderson, Francis G., M.D. 740 S. Alabama St., Indianapolis 2, Ind. *Pharmacologist, Eli Lilly & Co.* (3, 1950)

Henderson, LaVell M., Ph.D. Oklahoma State Univ., Dept. of Agric. Chemistry, Stillwater. *Professor.* (2, 1949)

Hendler, Richard W., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Biochemist, Lab. of Cellular Physiology and Metabolism.* (2, 1957)

Hendley, Charles D., Ph.D. Schering Corp., Bloomfield, N. J. (1, 1949)

Hendley, Edith D., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Research Assoc.* (1, 1955)

Hendrix, James Paisley, M.D. Duke Hospital, Durham, N. C. *Assoc. Prof. of Medicine and Therapeutics.* (3, 1942)

Hendrix, Robert Cowgill, M.D. Univ. of Michigan, Med. School, Dept. of Pathology, Ann Arbor. *Asst. Prof.* (4, 1954)

Hendry, Jessie L., M.A. Div. of Labs. and Research, New York State Dept. of Health, New Scotland Ave., Albany. *Assoc. Bacteriologist.* (6, 1938)

Henle, Werner, M.D. Univ. of Pennsylvania School of Medicine, Dept. of Public Health and Preventive Medicine, Philadelphia. *Prof. of Virology; Member, Research Staff, Children's Hosp.* (6, 1938)

Henneman, Elwood, M.D., C.M. Harvard Med. School, Boston 15, Mass. *Asst. Prof. of Physiology.* (1, 1952)

Hennessy, Albert V., M.D. Univ. of Michigan, Ann Arbor. *Asst. Prof., Dept. of Epidemiology, School of Public Health; Asst. Prof. in Pediatrics, Med. School.* (6, 1955)

Hennigar, Gordon Ross, Jr., M.D. State Univ. of New York College of Medicine, 450 Clarkson Ave., Brooklyn 3. *Prof. of Pathology.* (4, 1956)

Henry, James P., M.D., Ph.D. European Office, ARDC, 47 rue Cantersteen, Brussels, Belgium. *Lt. Col., USAF (MC); Chief, Biosciences, Tech. Operations Div.* (1, 1947)

Henschel, Austin F., Ph.D. QM Research and Engineering Command, Natick, Mass. *Chief, Environmental Protection Research Div.; Dir. of Lab.* (1, 1944)

Hepburn, Joseph Samuel, Ph.D., M.D. 2045 N. Franklin St., Philadelphia 22, Pa. *Prof. of Chemistry and Research Assoc. in Gastroenterology; Reg-*

istrar, Hahnemann Med. College and Hospital, (Emeritus). (**2R,** 1915)

Hepler, Opal E., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Pathology and Dir. of Labs.* (**4,** 1939)

Heppel, Leon A., Ph.D., M. D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, PHS.* (**2,** 1949)

Herbst, Robert M., Ph.D. Kedzie Chemical Lab., Michigan State Univ., East Lansing. *Prof. of Chemistry.* (**2,** 1938)

Herget, Carl M., Ph.D. 2163 Firethorn Rd., Baltimore 20, Md. *Chief, Biophysics Div.. Army Chemical Center, Md.* (**1,** 1948)

Hernandez, Thomas, M.D., Ph.D. Louisiana State Univ. School of Medicine, Biochemistry Dept., New Orleans 12. *Assoc. Prof.* (**1,** 1955)

Herrick, C. Judson, Ph.D. 236 Morningside Dr., Grand Rapids 6, Mich. *Prof. Emeritus of Neurology, Univ. of Chicago, Chicago, Ill.* (**1R,** 1907)

Herrick, Julia F., Ph.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Exper. Medicine.* (**1,** 1933)

Herrin, Raymond C., Ph.D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physiology.* (**1,** 1932)

Herrington, Lovic P., Ph.D. 290 Congress Ave., New Haven, Conn. *Dir. of Research, John B. Pierce Fndn.; Lecturer, Dept. of Public Health, Yale Med. School.* (**1,** 1942)

Herriott, Roger M., Ph.D. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Prof. and Head of Dept. of Biochemistry* (**2,** 1940)

Herrmann, George R., Ph.D., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Medicine; Dir. of Cardiovascular Research.* (**4R,** 1925)

Herrmann, Julian B., Ph.B., M.D. 1185 Park Ave., New York City. (**3,** 1941)

Herrmann, Louis George, M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Attending Surgeon; Assoc. Prof. of Surgery, Univ. of Cincinnati College of Medicine.* (**4,** 1933)

Herrmann, Roy G., Ph.D. Lilly Research Labs., Eli Lilly & Company, Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1954)

Hershey, Solomon G., M.D. New York Univ., Postgraduate Med. School, 750 Ladd Rd., New York City 71. *Clin. Prof. of Anesthesiology.* (**3,** 1952)

Hertig, Arthur T., M.D. Harvard Med. School, Boston 15, Mass. *Shattuck Prof. of Pathological Anatomy.* (**4,** 1956)

Hertz, Roy, Ph.D., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chief, Endocrinology Br.* (**1,** 1945)

Hertzman, Alrick B., Ph.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Physiology and Dir. of Dept.* (**1,** 1925)

Herwick, Robert P., Ph.D., M.D. 1212 Westview Rd., Glenview, Ill. *Med. Dir., Baxter Labs., Morton Grove, Ill.* (**3,** 1938)

Hess, Charles L., M.D. 110 E. Coronado Rd., Phoenix, Ariz. (**1R,** 1916)

Hess, Eugene Lyle. Ph.D. Rheumatic Fever Research Inst., Chicago 8, Ill. *Head, Biophysical Sec. and Exec. Dir.* (**2,** 1956)

Hess, Walter C., Ph.D. Georgetown Med. School, 39th St. and Reservoir Rd., N.W., Washington 7, D. C. *Asst. Dean and Prof. of Biological Chemistry.* (**2,** 1935)

Hess, Walter Rudolf, M.D. Univ. of Zurich, Zurich, Switzerland. *Prof. Emeritus of Physiology.* (**1H,** 1950)

Heston, Walter E. Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Gen. Biology Section.* (**4,** 1953)

Hetherington, Albert W., Ph.D. HQ, Air Research and Development Command, P.O. Box 1395, Baltimore 3, Md. (**1,** 1943)

Hewetson, Jean Hawks, Ph.D. Rt. 3, Gettysburg, Pa. (**5,** 1944)

Hewitt, Earl Albon, Ph.D. Iowa State College, Ames. *Prof., Dept. of Veterinary Physiology and Pharmacology.* (**1,** 1932)

Hewston, Elizabeth M., M.A. 1121 24th St., N.W., Apt. 300, Washington 7, D. C. *Chemist, Human Nutrition Research Branch, Home Economics Inst., Agricultural Research Service, USDA.* (**5,** 1950)

Heymans, C., M.D. Univ. of Ghent, 3 Albert Baertsoenkaai, Ghent, Belgium. *Prof. of Pharmacology.* (**3,** 1951)

Heyroth, Francis F., M.D., Ph.D. 110 Hosea Ave., Clifton, Cincinnati 20, Ohio. (**2R,** 1935)

Heywang, Burt W., M.S. USDA, Southwest Poultry Exper. Station, Glendale, Ariz. *Superintendent.* (**5,** 1956)

Hiatt, Edwin P., Ph.D., M.D. Aero Med. Lab., WCRDB-1, Wright Air Development Ctr., Wright-Patterson AFB, Ohio. *Chief, Acceleration Sec.* (**1,** 1942)

Hiatt, Howard H., M.D. Beth Israel Hosp., Boston 15, Mass. *Assoc. in Medicine, Harvard Med. School.* (**2,** 1957)

Hickam, John B., M.D. Duke Hospital, Durham, N. C. *Prof. of Medicine, Duke Univ.* (**1,** 1951)

Hicks, Samuel P., M.D. New England Deaconess Hosp., Boston 15, Mass. *Pathologist; Assoc. Prof. of Pathology, Harvard Med. School.* (**4,** 1956)

Hier, Stanley W., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago 9, Ill. *Tech. Asst. to General Manager.* (**2,** 1950)

Hiestand, William A., Ph.D. Purdue Univ., Dept.

of Biology, Lafayette, Ind. *Prof. of Physiology.* (**1**, 1947)

Higginbotham, A. C., Ph.D. West Virginia Univ., School of Medicine, Dept. of Microanatomy and Organology, Morgantown. *Assoc. Prof.* (**1**, 1955)

Higgins, George M., Ph.D. Univ. of Texas Dental Branch, Houston 25. *Visiting Prof. of Histology.* (**5R**, 1948)

Higgins, Harold Leonard, M.D. 322 Franklin St., Newton, Mass. (**1**, 1914; **5R**, 1933)

High, Edward G., Ph.D. Meharry Med. College, Nashville 8, Tenn. *Assoc. Prof. of Biochemistry,* (**5**, 1956)

Highman, Benjamin, M.D. Natl. Insts. of Health, Lab. of Pathology and Histochemistry, Bethesda, Md. *Med. Dir., PHS.* (**4**, 1947)

Hightower, Nicholas C., M.D., Ph.D. Scott and White Clinic, Temple, Texas. *Dir., Labs. for Clinical Investigation and Research.* (**1**, 1952)

Hildes, J. A., M.D. Univ. of Manitoba Med. College, Dept. of Physiology and Med. Research, Winnipeg 3, Canada. *Assoc. Prof. and Dir., Arctic Med. Research Unit.* (**1**, 1957)

Hill, Archibald Vivian, C.H., O.B.E., Sc.D., F.R.S. 16 Bishopswood Rd., London N. 6, England. (**1H**, 1950)

Hill, Fredric William, Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Animal Nutrition and Poultry Husbandry.* (**5**, 1954)

Hill, Robert M., Ph.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2**, 1933)

Hill, Willard T., M.D. Northwestern Univ. Med. School, Chicago, Ill. *Assoc. Prof. of Pathology.* (**4**, 1956)

Hilleman, Maurice, Ph.D. Walter Reed Army Inst. of Research, Dept. of Respiratory Diseases; Walter Reed Army Med. Ctr., Washington 12, D. C. *Med. Bacteriologist (Virologist).* (**6**, 1949)

Hiller, Alma, Ph.D. 27 Carter Ct., Lynbrook, N. Y. *Emeritus Assoc., Rush Dept. of Biochemistry, Presbyterian Hosp., Chicago.* (**2R**, 1929)

Hillier, Attie Yvonne, Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Asst. in Physiology.* (**1**, 1955)

Hilton, James G., Ph.D. Univ. of Mississippi Med. Ctr., Dept. of Pharmacology, Jackson. *Assoc. Prof.* (**3**, 1955)

Hilton, James Garrett, M.D. 115 E. 67th St., New York City 21. *Asst. Attending Physician, in charge of Lab. for Renal and Electrolyte Physiology, St. Luke's Hosp.* (**1**, 1957)

Himwich, Harold E., M.D. Galesburg State Research Hospital, Galesburg, Ill. *Research Dir.* (**1**, 1925; **3**, 1957)

Himwich, Williamina A., Ph.D. Galesburg State Research Hospital, Galesburg, Ill. *Biochemist.* (**1**, 1947)

Hine, Charles H., Ph.D., M.D. Univ. of California Med. School, Div. of Pharmacology, Med. Center, San Francisco 22. *Assoc. Clin. Prof.* (**3**, 1947)

Hines, Harry M., Ph.D. State Univ. of Iowa, College of Medicine, Dept. of Physiology, Iowa City. *Prof. and Head of Dept.* (**1**, 1928)

Hines, Marion, Ph.D. Emory Univ. Dept. of Anatomy, Emory University, Ga. *Prof. of Exper. Anatomy.* (**1**, 1932)

Hinrichs, M. A., Ph.D., M.D. 228 No. La Salle, Chicago, Ill. *Dir., Bureau of Health Services, Chicago Public Schools; Editor, J. School Health.* (**1**, 1928)

Hinsey, Joseph C., Ph.D., D.Sc. New York Hosp.-Cornell Med. Ctr., 525 E. 68th St., New York City 21. *Dir. and Prof. of Neuroanatomy.* (**1**, 1929)

Hinshaw, J. Raymond, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Asst. Prof. in Surgery; Chief, Flash Burn Sec., Atomic Energy Project.* (**4**, 1956)

Hirs, C. H. W., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Asst. Prof.* (**2**, 1955)

Hirsch, Frederic G., M.D. 118 Dartmouth Dr., S.E., Albuquerque, N. M. *Chief, Biophysics, Sandia Corp.* (**1**, 1951)

Hirschmann, Hans, M.D., Ph.D. Lakeside Hospital, Cleveland 6, Ohio. *Assoc Prof. of Biochemistry, Dept. of Medicine, Western Reserve Univ.* (**2**, 1946)

Hirst, George K., M.D. Public Health Research Inst., Foot of East 15th St., New York City 9. *Dir. and Chief, Div. of Infectious Diseases.* (**6**, 1951)

Hisaw, Frederick L., Ph.D. Harvard Univ. Biological Labs., Cambridge, Mass. *Prof. of Zoology.* (**1**, 1932)

Hitchcock, David I., Ph.D. Yale Univ., 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Physiology.* (**2**, 1930)

Hitchcock, Fred A., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1**, 1927; **5**, 1933)

Hitchcock, Philip, Ph.D., M.D. Apt. A4-1, 118 Montgomery Ave., Bala-Cynwyd, Pa. (**3**, 1946)

Hitchings, George H., Ph.D. 50 Primrose Ave., Tuckahoe 7, N. Y., *Assoc. Research Dir., Burroughs-Wellcome Research Labs.* (**2**, 1942)

Hjort, Axel M., M.D., Ph.D. R.D. 2, Lebanon, N. J. (**2R**, 1925)

Hoagland, Hudson, Ph.D. 222 Maple Ave., Shrewsbury, Mass. *Exec. Dir., Worcester Foundation for Exper. Biology.* (**1**, 1932)

Hoagland, Mahlon B., M.D. Massachusetts Gen. Hosp., Huntington Lab., Boston 14. *Research*

Assoc. in Medicine, Harvard Med. School. (2, 1956)

Hobby, Gladys L., Ph.D. 630 Flushing Ave., Brooklyn 6, N. Y. *Research Microbiologist in charge of Exptl. Chemotherapy, Chas. Pfizer & Co., Inc.* (6, 1946)

Hoberman, Henry D., Ph.D., M.D. Albert Einstein College of Medicine, New York City 61. *Assoc. Prof. of Biochemistry.* (2, 1949)

Hoch, Frederic L., M.D. Peter Bent Brigham Hosp., Biophysics Research Lab., Boston 15, Mass. *Assoc. in Medicine; Assoc. in Medicine, Harvard Med. School.* (2, 1957)

Hoch, Hans, Ph.D. 1614 Greenleaf Lane, Charlottesville, Va. *Assoc. Prof. of Biophysics, Med. College of Virginia, Richmond.* (2, 1952)

Hoch-Ligeti, Cornelia, M.D. Univ. of Virginia School of Medicine, Dept. of Pathology, Charlottesville. *Asst. Prof.* (4, 1955)

Hock, Raymond J., Ph.D. Arctic Aeromed. Lab., (Ladd AFB, Fairbanks, Alaska), APO 731, Seattle, Wash. *Biologist.* (1, 1954)

Hockett, Robert C., Ph.D. Tobacco Industry Research Comm., 150 E. 42nd St., New York City 17. *Assoc. Scientific Dir.* (2, 1950)

Hodes, Robert, Ph.D. % Turner, 81, Chancery Lane, London, W.C. 1, England. (1, 1941)

Hodge, Harold Carpenter, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Pharmacology and Toxicology.* (2, 1937; 3, 1948)

Hodgkin, Alan Lloyd, M.A. Physiological Lab., Cambridge, England. *Research Prof.* (1H, 1952)

Hodgson, Edward S., Ph.D. Columbia Univ., Dept. of Zoology, New York City 27. *Assoc. Prof.* (1, 1956)

Hoefer, Paul F. A., Ph.D., M.D. Neurological Inst. of New York, 710 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (1, 1945)

Hoekstra, Justin B., Ph.D. Bristol Labs., Inc., Syracuse 1, N. Y. *Sr. Research Pharmacologist.* (3, 1956)

Hoelscher, Bernhard, M.D. University Hospitals, Minneapolis, Minn. (1, 1955)

Hoff, Ebbe Curtis, Ph.D., M.D. Med. College of Virginia, Richmond 19. *Prof. of Neurological Science; Dean of Grad. Studies.* (1, 1933)

Hoff, Hebbel E., Ph.D., M.D. Baylor Univ. College of Medicine, Dept. of Physiology, 1200 M. D. Anderson Blvd., Houston 25, Tex. *B. F. Hambleton Prof. and Chairman of the Dept.* (1, 1933)

Hoffbauer, Frederick William. Univ. of Minnesota Hospitals, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Medicine.* (4, 1952)

Hoffman, Brian F., M.D. State Univ. of New York College of Medicine at New York City, 450 Clarkson Ave., Brooklyn 3. *Assoc. Prof of Physiology.* (1, 1954)

Hoffman, William Samuel, Ph.D., M.D. Sidney Hillman Health Centre of Chicago, 333 S. Ashland Blvd., Chicago 7, Ill. *Med. Dir.* (2, 1935)

Hofmann, Klaus, Ph.D. Univ. of Pittsburgh Med. School, Dept. of Biochemistry, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Biochemistry.* (2, 1947)

Hogan, Albert G., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. Emeritus of Animal Nutrition.* (2R, 1916; 5, 1933)

Hogben, C. Adrian M., M.D., Ph.D. George Washington Univ., Dept. of Physiology, Washington 5, D. C. *Prof. and Exec. Officer.* (1, 1953; 3, 1957)

Hokin, Lowell E., M.D., Ph.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Madison 6. *Asst. Prof.* (2, 1954)

Holck, Harald G. O., Ph.D. Univ. of Nebraska, College of Pharmacy, Lincoln 8. *Prof. Emeritus of Pharmacology; Research Assoc. and Consultant, Inst. for Cellular Research.* (1R, 1935; 3, 1938)

Hollaender, Alexander, Ph.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Dir., Biology Div.* (1, 1947)

Holland, William Cannon, M.D. Vanderbilt Univ. Med. School, Dept. of Pharmacology, Nashville 4, Tenn. *Assoc. Prof.* (3, 1951)

Hollander, Franklin, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Assoc. in Physiology; Head, Gastro-enterology Research Lab.* (1, 1942; 2, 1932)

Holley, Robert W., Ph.D. U.S. Nutrition Lab., Cornell Univ., Dept. of Biochemistry, Ithaca, N. Y. *Chemist; Assoc. Prof., Biochemistry.* (2, 1956)

Hollinshead, W. Henry, Ph.D. Mayo Clinic, Rochester, Minn. *Head of Section of Anatomy, Prof. of Anatomy, Mayo Foundation.* (1, 1949)

Holman, Ralph Theodore, Ph.D. Hormel Inst., Univ. of Minnesota, Austin. *Prof. of Physiological Chemistry.* (2, 1948; 5, 1957)

Holman, Russell Lowell, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Pathology.* (4, 1940)

Holmes, Joseph H., M.D., D.Med.Sc. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver 20. *Prof. of Medicine.* (1, 1947)

Holmes, Julia O., Ph.D. 79 Old Town Rd., Amherst, Mass. (2, 1942; 5, 1936)

Holt, Joseph Paynter, M.D., Ph.D. Univ. of Louisville, Inst. for Med. Research, 323 E. Chestnut St., Louisville 2, Ky. *Prof. of Heart Research.* (1, 1942)

Holt, L. Emmett, Jr., M.D. 550 First Ave., New York City 16. *Prof. of Pediatrics, New York Univ. College of Medicine.* (2, 1930; 5, 1946)

Holtkamp, Dorsey E., Ph.D. Smith, Kline & French Labs., 1530 Spring Garden St., Phila-

delphia 1, Pa. *Endocrine-Metabolic Group Leader in Biochemistry.* (3, 1954)

Homburger, Freddy, M.D. Tufts Univ. School of Medicine, Boston 11, Mass. *Research Prof. of Medicine.* (4, 1957)

Hoobler, Icie Macy, Ph.D. 71 E. Ferry Ave., Detroit 2, Mich. *Consultant, Merrill-Palmer School.* (2, 1925; 5, 1933)

Hoobler, Sibley W., M.D. Univ. of Michigan Hospital, Dept. of Medicine, Ann Arbor. *Assoc. Prof. of Internal Medicine.* (1, 1949)

Hooker, Davenport, Ph.D. 110 Livingston St., New Haven, Conn. *Prof. Emeritus of Anatomy, Univ. of Pittsburgh.* (1R, 1920)

Hooker, Sanford B., M.D. Bradford, Vt. (6R, 1918)

Hoover, Sam R., Ph.D. 2017 Hillyer Pl., N.W., Washington 9, D. C. *Asst. Dir., Eastern Utilization Research and Development Div., Agric. Research Service, USDA.* (2, 1946)

Hoppe, James O., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (3, 1950)

Hoppert, C. A., Ph.D. Michigan State Univ., Box 626, East Lansing. *Prof. of Biological Chemistry.* (5, 1935)

Hopps, Howard C., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. and Chairman of Dept. of Pathology.* (4, 1947; 6, 1946)

Horecker, Bernard L., Ph.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chief, Lab. of Biochemistry and Metabolism.* (2, 1947)

Horn, Millard J., Ph.D. 1811 Varnum St., N.E., Washington 18, D.C. *U.S. Dept. of Agriculture, Chemist.* (2, 1949)

Horowitz, Norman H., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Biology.* (2, 1946)

Horsfall, Frank L., Jr., M.D. C.M. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Vice Pres., Physician-in-Chief.* (6, 1937)

Horstmann, Dorothy M., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Prof. of Preventive Medicine and Pediatrics.* (6, 1951)

Horton, Richard G., Ph.D. Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Toxicity Screening Br.* (1, 1948)

Horvath, Steven M., Ph.D. State Univ. of Iowa School of Medicine, Dept. of Physiology, Iowa City. *Professor of Physiology; Dir., Gerontological Inst.* (1, 1943)

Horwitt, Benjamin N., Ph.D. Mt. Sinai Hosp., Chicago 8, Ill. *Head, Div. of Biochemistry.* (2, 1953)

Horwitt, M. K., Ph.D. Elgin State Hosp., Elgin, Ill. *Dir., Biochemical Research Lab.; Assoc. Prof. of Biological Chemistry, Univ. of Illinois College of Medicine.* (2, 1941; 5, 1949)

Horwitz, Orville, M.D. Univ. of Pennsylvania Hosp., Philadelphia 4. *Asst. Prof. of Clin. Medicine.* (1, 1955)

Hoskins, R. G., Ph.D., M.D. 86 Varick Rd., Waban 68, Mass. (1R, 1911)

Hotchkiss, Rollin D., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member and Prof.* (2, 1941)

Hou, H. C., M.D. 372 Wu Kang Rd., Shanghai, China. *Prof. of Biochemistry and Head of Dept.* (5, 1949)

Houde, Raymond W., M.D. 444 E. 68th St., New York City, 21. *Asst. Prof. of Medicine, Cornell Univ. Med. School; Assoc. Member, Sloan-Kettering Inst., Memorial Ctr. for Cancer and Allied Diseases.* (3, 1953)

Houssay, Bernardo A., M.D. Viamonte 2790, Buenos Aires, Argentina. *Dir. Inst. Biology and Med. Exper.* (1H, 1942)

Hove, Edwin L., Ph.D. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. *Biochemist.* (5, 1946)

Howard, Evelyn, Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Asst. Prof. of Physiology.* (1, 1933)

Howard, John Eager, M.D. 1101 St. Paul St., Baltimore 2, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ.* (1, 1946)

Howe, Calderon, M.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Microbiology.* (6, 1953)

Howe, Eugene E., Ph.D. R. D. 1, Bound Brook, N. J. *Dir. of Nutrition, Merck Inst. for Therapeutic Research.* (2, 1953)

Howe, Howard A., M.D. Johns Hopkins Univ., 1901 East Madison St., Baltimore 5, Md. *Adjunct Prof. of Epidemiology.* (6, 1949)

Howe, Paul E., Ph.D. 6517 Beverly Rd., Baltimore 12, Md. *Nutrition Consultant.* (1R, 1913; 2R, 1909; 5R, 1933)

Howell, David Sanders, M.D. Univ. of Miami School of Medicine, Miami, Fla. *Asst. Prof. of Medicine and Dir. of Arthritis Training Program.* (1, 1957)

Howell, Stacey F., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Prof. of Physiological Chemistry.* (2, 1940)

Howland, Joe W., Ph.D., M.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Radiation Biology; Chief, Med. Div. Atomic Energy Project, Univ. of Rochester School of Medicine.* (1, 1949; 4, 1951)

Huang, H. T., Ph.D. Chas. Pfizer & Co., Inc., Brooklyn 6, N. Y. *Research Biochemist.* (2, 1953)

Huang, Kee-chang, M.D., Ph.D. Univ. of Louis-

ville, School of Medicine, Louisville 2, Ky. *Asst. Prof. of Pharmacology.* (**1**, 1957; **3**, 1957)

Hubbard, Ruth H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge, Mass. *Research Fellow.* (**2**, 1953)

Hubbell, Rebecca B., Ph.D. 107 Cottage St., Apt. 2A, New Haven 11, Conn. *Edit. Asst., J. Nutrition.* (**2R**, 1937; **5R**, 1935)

Hudack, Stephen Sylvester, M.D. Branch Rd., Enumclaw, Wash. *Trauma Surgery.* (**4**, 1953)

Huddleston, O. Leonard, M.D., Ph.D. California Rehabilitation Ctr., 1 Pico Blvd., Santa Monica, Calif. *Med. Dir.* (**1**, 1936)

Huennekens, Frank M., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2**, 1952)

Hueper, Wilhelm C., M.D. Natl. Cancer Inst., Bethesda, Md. *Chief, Environmental Cancer. Sec.* (**4**, 1940)

Huf, Ernst G., Ph.D., M.D. Med. College of Virginia, Dept. of Physiology, Richmond. *Prof. of Physiology.* (**1**, 1949)

Huff, Jesse W., Ph.D. Sharp & Dohme, Inc., Div., Merck and Co., Inc., West Point, Pa. *Dir., Research in Physiological Chemistry.* (**2**, 1949)

Huffman, C. F., Ph.D. Michigan State Univ., Anthony Hall, East Lansing. *Research Prof. and Prof. in Dairy Husbandry.* (**5**, 1937)

Huffman, Max N., Ph.D. Oklahoma Med. Research Fndn., 825 N. E. 13th St., Oklahoma City 4. *Prof. of Research Biochemistry, Univ. of Oklahoma, School of Medicine.* (**2**, 1947)

Huggins, Charles Brenton, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Surgery.* (**1**, 1932)

Huggins, Russell A., Ph.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston 5, Tex. *Prof. of Pharmacology.* (**1**, 1952; **3**, 1949)

Hughes, John Russell, Ph.D. Meyer Mem. Hosp., Buffalo, N. Y. *Chief of Neurophysiology and EEG; Asst. Prof. of Neurophysiology, Buffalo Med. School.* (**1**, 1957)

Hughes, Joseph, M.D. 111 N. 49th St., Philadelphia, Pa. *Assoc. Prof. of Exper. Neurology, Grad. School of Medicine, Univ. of Pennsylvania; Prof. of Psychiatry, Woman's Med. College of Pennsylvania.* (**1**, 1936)

Hughes, Josiah Simpson, Ph.D. Kansas State College, Manhattan. *Prof. of Chemistry.* (**2**, 1931; **5R**, 1939)

Hughes, Thomas P., Ph.D. World Health Organization, Casilla 1167, Asuncion, Paraguay, S. A. *Public Health Lab. Consultant.* (**6**, 1934)

Hughes, Walter L., Ph.D. Brookhaven Natl. Lab., Med. Dept., Upton, L. I., N. Y. *Head, Div. of Microbiology.* (**2**, 1955)

Hull, Wayland E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Asst. Prof. of Physiology.* (**1**, 1955)

Hulpieu, Harold R., Ph.D. Indiana Univ. School of Medicine, Indianapolis 7. *Prof. of Pharmacology.* (**3**, 1939)

Hummel, John P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Assoc. Prof.* (**2**, 1952)

Humphries, James C., Ph.D. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Prof. of Bacteriology.* (**6**, 1950)

Hundley, James M., M.D. UNICEF, United Nations, New York City. (**5**, 1950)

Hunscher, Helen A., Ph.D. Western Reserve Univ., 2023 Adelbert Rd., Cleveland 6, Ohio. *Head of Dept. of Home Economics.* (**5**, 1934)

Hunt, Carlton C., M.D. Univ. of Utah College of Medicine, Salt Lake City. *Prof. of Physiology.* (**1**, 1950)

Hunter, Andrew, C.B.E., M.B. Hospital for Sick Children, Toronto, Ontario, Canada. *Research Assoc.; Prof. Emeritus of Pathological Chemistry, Univ. of Toronto.* (**2R**, 1908)

Hunter, F. R., Ph.D. Univ. of the Andes, Biology Dept., Bogotá, Colombia, S. A. (**1**, 1952)

Hunter, Francis Edmund, Jr., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (**2**, 1946; **3**, 1951).

Hunter, Jesse E., Ph.D. Allied Mills, Inc., Research Div., Box 459, Libertyville, Ill. *Dir. of Research.* (**5**, 1936)

Hunter, John, Ph.D. Defense Research Med. Labs., Box 62, Postal Sta. 'K', Toronto, Ontario, Canada. *Chief, Applied Physiology Section.* (**1**, 1948)

Hurwitz, Jerard, Ph.D. Washington Univ. School of Medicine, Dept. of Microbiology, St. Louis, Mo. *Instructor.* (**2**, 1957)

Hurwitz, Leon, Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Pharmacodynamics Branch, Washington 25, D. C. *Pharmacologist.* (**3**, 1956)

Hutchens, John O., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1**, 1947)

Hutcheon, Duncan E., M.D., Ph.D. Seton Hall College of Medicine, Jersey City 4, N .J. *Fellow in Medicine.* (**3**, 1954)

Hutchings, Brian L., Ph.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Dir. of Biochemical Research.* (**2**, 1949)

Huttrer, Charles P., Ph.D. Natl. Heart Inst., Grants and Training Br., NIH, Bethesda 14, Md. *Asst. Chief.* (**1**, 1957)

Hwang, Kao, M.D., Ph.D. Abbott Labs., N. Chicago, Ill. *Group Leader in Pharmacology.* (**3**, 1953)

Hyde, Jane E., Ph.D. Univ. of California at Los

Angeles Med. Ctr., Dept. of Physiology, Los Angeles 24. *Asst. Research Physiologist.* (**1,** 1951)

Hyman, Chester, Ph.D. Univ. of Southern California, Dept. of Physiology, Los Angeles 7. *Professor.* (**1,** 1948)

Ikawa, Miyoshi, Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. (**2,** 1956)

Imagawa, David T., Ph.D. Univ. of California School of Medicine, Los Angeles 24. *Asst. Prof. of Pediatrics and Infectious Diseases.* (**4,** 1957)

Imig, Charles J., Ph.D. State Univ. of Iowa, Dept. of Physiology, Iowa City. *Asst. Prof. of Physiology* (**1,** 1955)

Ingalls, Mabel S., Ph.D. 860 Fifth Ave., New York City 21. *Assoc. Prof., Public Health Practice, Columbia Univ., School of Public Health and Admin. Medicine.* (**6,** 1940)

Ingle, Dwight J., Ph.D. Univ. of Chicago, The Ben May Lab. for Cancer Research, Chicago, Ill. *Prof. of Physiology.* (**1,** 1939)

Ingraham, Raymond Clifford, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Assoc. Prof. of Physiology.* (**1,** 1938)

Ingram, W. R., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Prof. and Head of Dept. of Anatomy.* (**1,** 1936)

Innes, James R. M., Ph.D., D.Sc. Wellcome Research Labs., Tuckahoe, N. Y. *Pathologist.* (**4,** 1955)

Iob, Vivian, Ph.D. Kresge Med. Research Bldg., R. 5556, University Hosp., Ann Arbor, Mich. *Instr., Dept. of Surgery, Univ. of Michigan Med. School.* (**2,** 1957)

Ipsen, Johannes, Jr., M.D. Massachusetts Dept. of Public Health, 375 South St., Jamaica Plain. *Superintendent, Inst. of Labs.; Assoc. Prof. of Public Health, Harvard School of Public Health.* (**6,** 1953)

Irish, Don D., Ph.D. Dow Chemical Co., Midland, Mich. *Dir., Biochemical Research Lab.* (**3,** 1948)

Irvin, Elinor Moore, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Biochemistry and Nutrition, Chapel Hill. *Guest Investigator.* (**2,** 1951)

Irvin, J. Logan, Ph.D. Univ. of North Carolina, School of Medicine, Dept. of Biochemistry and Nutrition, Chapel Hill. *Prof. and Chairman of Dept.* (**2,** 1942)

Irving, George Washington, Jr., Ph.D. USDA, Agricultural Research Service, Washington 25, D. C. *Dept. Admin.* (**2,** 1946)

Irving, Laurence, Ph.D. USPHS, P.O. Box 960, Anchorage, Alaska. *Biologist, Arctic Health Research Ctr.* (**1,** 1927)

Irwin, M. R., Ph.D. Univ. of Wisconsin, Dept. of Genetics, Madison. *Professor.* (**6,** 1936)

Irwin, Samuel, Ph.D. Schering Corp., Dept. of Pharmacology, Bloomfield, N. J. *Research Pharmacologist.* (**3,** 1955)

Isaacs, Raphael, M.D. 104 S. Michigan Ave., Suite 630, Chicago 3, Ill. (**4,** 1928)

Isbell, Harris, M.D. PHS Hospital, Lexington, Ky. *Dir., NIMH Addiction Research Ctr.* (**3,** 1949)

Isenberger, R. M., M.D. Univ. of Kansas School of Medicine, Kansas City 12. *Prof. of Pharmacology.* (**3,** 1937)

Itano, Harvey A., M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon (USPHS).* (**2,** 1953)

Ivy, A. C., Ph.D., M.D. Univ. of Illinois, Chicago Professional Colleges, Chicago, Ill. *Distinguished Prof. of Physiology and Head of Dept. of Clin. Science.* (**1,** 1919; **5,** 1933)

Iwamoto, Harry K., Ph.D. Baxter Labs., Morton Grove, Ill. *Chief, Pharmacology-Physiology Sec.* (**3,** 1948)

Izquierdo, J. Joaquin, M.D. Natl. School of Medicine, Mexico City. *Prof. of Physiology in Natl. School of Medicine.* (**1,** 1928)

Jackson, Dennis Emerson, Ph.D., M.D. 144 Louis Ave., Cincinnati 20, Ohio. *Prof. Emeritus of Pharmacology, Univ. of Cincinnati College of Medicine.* (**1R,** 1910; **3R,** 1912)

Jackson, Dudley P., M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Medicine.* (**1,** 1955)

Jackson, Elizabeth B., A.B. Natl. Inst. of Allergy and Infectious Diseases, NIH, Lab. of Infectious Diseases, Bethesda 14, Md. *Virologist.* (**6,** 1949)

Jackson, Eugene L., Ph D. 1407 Cummings Dr., Richmond 20, Va. *Vice Pres. and Med. Dir., A. H. Robins Co., Inc.* (**3,** 1942)

Jackson, Richard W., Ph.D. U. S. Dept. of Agriculture, Northern Regional Research Lab., 1815 N. University St., Peoria, Ill. *Head of Fermentation Div.* (**2,** 1930; **5,** 1933)

Jackson, Robert L., M.D. Univ. of Missouri, Dept. of Pediatrics, Columbia. *Prof. and Chairman of Dept.* (**5,** 1933)

Jacobs, Merkel Henry, Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia. *Emeritus Prof. of General Physiology.* (**1,** 1919)

Jacobs, Walter A., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**2R,** 1908; **3R,** 1913)

Jacobsen, Erik, M.D. Medicinalco Ltd., 37, Prags Blvd., Copenhagen S., Denmark. *Research Dir.* (**3,** 1950)

Jacobson, Edmund, Ph.D., M.D. Lab. for Clin. Physiology, 55 E. Washington St., Chicago, Ill. *Director.* (**1,** 1929)

Jacobson, Leon O., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Medicine; Dir. of Argonne Cancer Research Hosp.* (**4,** 1953)

Jaffe, Henry L., M.D. Hospital for Joint Diseases,

1919 Madison Ave., New York City. *Dir. of Labs.* (4, 1925)

Jager, Blair Valdemar, M.D. Univ. of Utah, Salt Lake Gen. Hosp., Salt Lake City. *Assoc. Prof. of Medicine.* (6, 1954)

Jahn, Theodore Louis, Ph.D. Univ. of California, Los Angeles 24. *Chairman, Dept. of Zoology.* (1, 1944)

Jailer, Joseph W., M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City. *Assoc. Prof. of Medicine.* (1, 1948).

Jakoby, William B., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Biochemist-Microbiologist.* (2, 1957)

Jandorf, Bernard J., Ph.D. Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Biochemical Research Div.* (2, 1946)

Janes, Ralph G., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Prof. of Anatomy.* (1, 1948)

Janowitz, Henry D., M.D. Mt. Sinai Hosp., 1 E. 100th St., New York City 29. *Assoc. Attending Physician for Gastroenterology.* (1, 1951)

Jansen, Eugene F., B.A. Western Utilization Research Branch, 800 Buchanan St., Albany 6, Calif. *Head, Fruit Processing Div.* (2, 1947)

Jaques, L. B., Ph.D. Univ. of Saskatchewan, Saskatoon, Canada. *Prof. and Head of Dept. of Physiology and Pharmacology.* (1, 1943; 3, 1954)

Jaques, William E., M.D. Univ. of Oklahoma School of Medicine, Oklahoma City 4. *Prof. and Chairman of Pathology.* (4, 1954)

Jarcho, Leonard W., M.D. Veterans Administration Hospital, 12th Ave. and E St., Salt Lake City 3, Utah. *Asst. Prof. of Medicine; Chief of Med. Service.* (1, 1951)

Jarvik, Murray E., M.D., Ph.D. Albert Einstein College of Medicine, New York City 61. *Asst. Prof. of Pharmacology.* (3, 1957)

Jasper, Herbert H., Ph.D., D. és Sc. (Paris), M.D. Montreal Neurological Inst., 3801 University St., Montreal, Quebec, Canada. *Head, Dept. of Neurophysiology; Prof. of Exper. Neurology, McGill Univ.* (1, 1940)

Jawetz, Ernest, Ph.D., M.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Prof. of Microbiology; Lecturer in Medicine and Pediatrics.* (6, 1950)

Jeanloz, Roger W., D.Sc. Massachusetts Gen. Hosp., Boston 14. *Assoc. Biochemist.* (2, 1954)

Jenden, Donald J., M.B., B.S. Univ. of California Med. Ctr., Dept. of Pharmacology, Los Angeles 24. *Assoc. Prof. and Acting Chairman.* (3, 1955)

Jenness, Robert, Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul. *Professor.* (2, 1953)

Jennings, Frank Lamont, M.D. Univ. of Chicago, Dept. of Pathology, Chicago 37, Ill. *Asst. Prof.* (4, 1954)

Jennings, Robert B., M.D. Northwestern Univ. Med. School, Chicago, Ill. *Asst. Prof.* (4, 1956)

Jennings, Robert K., Ph.D. Rheumatic Fever Research Inst., 3026 S. California Ave., Chicago 8, Ill. *Member.* (6, 1957)

Jensen, Elwood V., Ph.D. Univ. of Chicago, Dept. of Biochemistry, and Ben May Lab. for Cancer Research, Chicago, Ill. *Assoc. Prof.* (2, 1954)

Jensen, Hans F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Head, Biochemistry Dept.* (2, 1929)

Jensen, Keith E., Ph.D. Virus and Rickettsia Section, C.D.C., USPHS, Montgomery, Ala. (6, 1954)

Jesaitis, Margeris A., Sc.D. Rockefeller Inst. for Med. Research, New York City 21. *Associate.* (2, 1957)

Jeter, Wayburn S., Ph.D. State Univ. of Iowa, Dept. of Bacteriology, Iowa City. *Asst. Prof.* (6, 1955)

Joachimoglu, George, M.D. 3A Lykeiou St., Athens, Greece. *Prof. of Pharmacology.* (3, 1951)

Jobling, James W., M.D. Suwanee Hotel, St. Petersburg, Fla. *Prof. Emeritus of Pathology, Columbia Univ.* (4R, 1913)

Jochim, Kenneth E., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Prof. and Chairman of Dept. of Physiology; Asst. Dean of Med. School.* (1, 1942)

Johnson, Arthur G., Ph.D. Univ. of Michigan School of Medicine, Dept. of Bacteriology, Ann Arbor. *Asst. Prof.* (6, 1957)

Johnson, B. Connor, Ph.D. Univ. of Illinois, Div. of Animal Nutrition, 259 Animal Sciences Lab., Urbana. *Prof. of Animal Biochemistry.* (2, 1947; 5, 1947)

Johnson, Frank H., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Prof. of Biology.* (1, 1942)

Johnson, J. Raymond, Ph.D. Creighton Univ. School of Medicine, Dept. of Physiology and Pharmacology, Omaha 2, Nebr. *Prof. and Dir. of Dept.* (1, 1938)

Johnson, John A., Ph.D. Univ. of Minnesota Med. School, Dept. of Physiology, Minneapolis. *Assoc. Prof.* (1, 1955)

Johnson, Joseph L., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Dean, College of Medicine.* (1, 1934)

Johnson, Marvin J., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (2, 1941)

Johnson, Ralph M., Ph.D. Detroit Inst. of Cancer Research, 4811 John R. St., Detroit 1, Mich. *Research Assoc.; Asst. Prof., Physiological Chemistry, Wayne State Univ. College of Medicine.* (2, 1952)

Johnson, Robert E., M.D., Ph.D. Univ. of Illinois College of Liberal Arts and Sciences, Dept. of Physiology, Urbana. *Head of Dept.* (**1,** 1944; **2,** 1939; **5,** 1946)

Johnson, S. R., Ph.D. M.F.A. Milling Co., Springfield, Mo. *Dir. of Nutrition.* (**5,** 1947)

Johnson, Shirley A., Ph.D. Henry Ford Hosp., Detroit 2, Mich. *Associate in Labs.* (**1,** 1956)

Johnson, Victor, Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Director.* (**1,** 1933)

Johnson, Walter H., Ph.D. Defence Research Med. Labs., Toronto, Canada. *Defence Scientific Officer.* (**1,** 1955)

Johnston, Charles G., M.D. Wayne State Univ. College of Medicine, Detroit 7, Mich. *Chairman, Div. of Surgery.* (**1,** 1933)

Johnston, Elbert Felton, Ph.D. USDA Agric. Research Ctr., Beltsville, Md. *Physiologist (Animal).* (**1,** 1957)

Johnston, Frances A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Food and Nutrition.* (**5,** 1948)

Johnston, Margaret W., Ph.D. 1761 Westridge Rd., Ann Arbor, Mich. (**2,** 1930)

Johnston, Robert B., Ph.D. Univ. of Nebraska, Lincoln 8. *Assoc. Prof. of Chemistry.* (**2,** 1957)

Jolliffe, Norman, M.D. 910 Park Ave., New York City 21. *Dir., Bureau of Nutrition.* (**1,** 1932; **5,** 1957)

Jonas, Herbert, Ph.D. Univ. of Virginia Med. School, Cancer Research Lab., Charlottesville. *Research Assoc.* (**1,** 1956)

Jones, E. Elizabeth, Ph.D. Wellesley College, Dept. of Zoology and Physiology, Wellesley 81, Mass. *Prof. of Zoology.* (**4,** 1956)

Jones, Hardin B., Ph.D. Univ. of California, Div. of Med. Physics, Berkeley 4. *Prof. of Med. Physics and Physiology; Asst. Dir. of Donner Lab.* (**1,** 1949)

Jones, James H., Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Biochemistry.* (**2,** 1928; **5,** 1933)

Jones, Kenneth K., Ph.D. Clinical Research Labs., 433 N. Tucson Blvd., Tucson, Ariz. *Director.* (**1R,** 1936)

Jones, L. Meyer, D.V.M., Ph.D. Iowa State College, Ames. *Prof. of Veterinary Physiology and Pharmacology.* (**3,** 1953)

Jones, Mary Ellen, Ph.D. Brandeis Univ., Dept. of Biochemistry, Waltham, Mass. *Asst. Prof.* (**2,** 1955)

Jones, Ralph, Jr., M.D. Univ. of Miami Med. School, Miami 36, Fla. *Prof. and Chairman Dept. of Medicine.* (**3,** 1950)

Jones, Russell S., Univ. of Utah College of Medicine, Dept. of Pathology, Salt Lake City. (**4,** 1952)

Jordan, William S., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Preventive Medicine; Asst. Prof. of Medicine.* (**6,** 1955)

Joseph, Norman R., Ph.D. Univ. of Illinois, Chicago 12, Ill. *Assoc. Prof. of Chemistry.* (**2,** 1947)

Joslin, Elliott P., M.D., 170 Pilgrim Rd., Boston 15, Mass. *Pres., Diabetes Fndn.* (**5R,** 1933)

Joslyn, Maynard A., Ph.D. Univ. of California, Berkeley 4. *Prof. of Food Technology; Biochemist, Calif. Agricultural Exper. Sta.* (**2,** 1956)

Jukes, Thomas Hughes, Ph.D. Amer. Cyanamid Co., Research Div., Pearl River, N. Y. *Head, Nutrition and Physiology Sec.* (**2,** 1935; **5,** 1938)

Jung, Frederic Theodore, Ph.D., M.D. American Med. Assn., Chicago, Ill. *Asst. Editor, J.A.M.A.* (**1,** 1930)

Jungck, Edwin C., Ph.D., M.D. Dept. of Endocrinology, Med. College of Georgia, Augusta. (**1,** 1952)

Jungeblut, Claus W., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Bacteriology.* (**4,** 1929; **6,** 1926)

Juni, Elliot, Ph.D. Emory Univ., Dept. of Bacteriology, Emory University, Ga. *Assoc. Prof.* (**2,** 1954)

Kabat, Elvin A., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Microbiology.* (**2,** 1940; **6,** 1943)

Kabat, Herman, Ph.D., M.D. State of Rhode Island Dept. of Social Welfare, Providence 3, R. I. (**1,** 1941)

Kagan, Benjamin M., M.D. Cedars of Lebanon Hosp., Los Angeles 29, Calif. *Dir., Dept. of Pediatrics; Clin. Prof. of Pediatrics, UCLA.* (**5,** 1953)

Kagan, Irving G., Ph.D. Communicable Disease Ctr., Lab. Branch, P.O. Box 185, Chamblee, Ga. *Chief, Helminthology Unit, Microbiology Section.* (**6,** 1955)

Kahn, Julius B., Jr., Ph.D. Univ. of Cincinnati College of Medicine, Dept. of Pharmacology, Cincinnati 19, Ohio. *Asst. Prof.* (**3,** 1954)

Kahn, Reuben L., Sc.D. Univ. of Michigan Hospital, Kresge Med. Research Bldg., Ann Arbor. *Prof. of Serology of Syphilis and Chief of Serology Lab.* (**4,** 1934; **6,** 1919)

Kalckar, Herman M., M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Biochemistry and Metabolism, NIH, Bethesda 14, Md. *Chief, Sec. on Metabolic Enzymes.* (**2,** 1942)

Kallio, Reino E., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Bacteriology.* (**2,** 1957)

Kalman, Sumner M., M.D. Stanford Univ. School of Medicine, Dept. of Pharmacology, San Francisco 15, Calif. *Asst. Prof.* (**3,** 1956)

Kalnitsky, George, Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Professor.* (2, 1948)

Kalow, Werner, M.D. Univ. of Toronto, Dept. of Pharmacology, Toronto 5, Canada. *Assoc. Prof. of Pharmacology.* (3, 1951)

Kalter, Seymour Sanford, Ph.D. C.D.C., USPHS, P.O. Box 185, Chamblee, Ga. *Chief, Diagnostic Methodology Lab.* (6, 1950)

Kamen, Martin D., Ph.D. Brandeis Univ., Waltham, Mass. *Prof. of Biochemistry.* (2, 1946)

Kamijo, Kazuya, M.D., Ph.D. Showa Med. College, Shinagawa-ku, Tokyo, Japan. *Prof. in Pharmacology.* (3, 1953)

Kamin, Henry, Ph.D. Duke Hospital, Box 3344, Durham, N. C. *Asst. Prof. of Biochemistry, Duke Univ. School of Medicine; Principal Scientist, Radio-Isotope Unit, VA Hospital, Durham.* (2, 1953)

Kamm, Oliver, Ph.D. 360 Carver St., Grosse Pointe 36, Mich. *Consultant in field of medicinal products.* (2R, 1928)

Kandel, Alexander, Ph.D. Tulane Univ., Dept. of Pharmacology, New Orleans, La. *Asst. Prof.* (3, 1956)

Kanter, Gerald S., Ph.D. Albany Med. College, Dept. of Physiology, Albany 8, N. Y. *Asst. Prof.* (1, 1955)

Kao, Chien-yuan, M.D. State Univ. of New York College of Medicine, Brooklyn 3. *Asst. Prof. of Pharmacology.* (1, 1957)

Kao, Frederick F., Ph.D., M.D. State Univ. of New York Med. College, Dept. of Physiology, Brooklyn 3. *Asst. Prof.* (1, 1956)

Kaplan, Alex, Ph.D. Children's Hosp., San Francisco, Calif. (1, 1951)

Kaplan, Harold M., Ph.D. 510 W. Main St., Carbondale, Ill. *Prof. of Physiology, Southern Illinois Univ.* (1, 1954)

Kaplan, Henry S., M.D. Stanford Univ. School of Medicine, Dept. of Radiology, San Francisco 15, Calif. *Professor.* (4, 1956)

Kaplan, J. Gordin, Ph.D. Dalhousie Univ., Dept. of Physiology, Halifax, N. S., Canada. *Assoc. Prof.* (1, 1956)

Kaplan, Melvin H., M.D. Harvard Medical School, Boston 15, Mass. *Assoc., Bacteriology and Immunology; Research Assoc., Children's Med. Ctr. and House of Good Samaritan.* (6, 1956)

Kaplan, Nathan O., Ph.D. Brandeis Univ., Waltham, Mass. *Prof. of Biochemistry.* (2, 1949)

Karczmar, Alexander G., Ph.D. Loyola Univ., Stritch School of Medicine, Dept. of Pharmacology, Chicago 12, Ill. *Prof. and Chairman.* (3, 1953)

Karel, Leonard, Ph.D. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Chief, Extramural Programs.* (3, 1947)

Karnofsky, David A., M.D. Sloan-Kettering Inst. New York City 21. *Assoc. Attending Physician, Memorial Hosp.* (3, 1956)

Karnovsky, Manfred L., Ph.D. Harvard Med. School, Biophysical Lab., 25 Shattuck St., Boston 15, Mass. *Asst. Prof., Biological Chemistry.* (2, 1951)

Karp, Dorothy, Ph.D. Baylor Univ. College of Medicine, Texas Med. Ctr., Houston. *Instr. in Pharmacology.* (3, 1956)

Karpovich, Peter V., M.D., M.P.E. Springfield College, Springfield, Mass. *Prof. of Physiology.* (1, 1942)

Karshan, Maxwell, Ph.D. Columbia Univ., Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (2, 1939)

Karsner, Howard T., M.D. Dept. of the Navy, Bureau of Medicine and Surgery, Washington 25, D. C. *Med. Research Advisor.* (4R, 1913)

Karush, Fred, Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Pediatrics, 1740 Bainbridge St., Philadelphia 46. *Prof. of Immunochemistry.* (2, 1957; 6, 1952)

Karzon, David T., M.D. Children's Hospital, 219 Bryant St., Buffalo 22, N. Y. *Asst. Prof. of Pediatrics and of Virology; Dir., Virology Lab.* (6, 1953)

Kass, Edward H., M.D., Ph.D. Boston City Hosp., Thorndike Memorial Lab., Boston 18, Mass. *Asst. Physician; Asst. Prof. of Medicine, Harvard Med. School.* (6, 1955)

Kassell, Beatrice, Ph.D. Marquette Univ. Med. School, Milwaukee 3, Wis. *Assoc. in Biochemistry.* (2, 1957)

Kastelic, Joseph, Ph.D. Univ. of Illinois, Div. of Animal Nutrition, Urbana. *Professor.* (5, 1957)

Katsh, Seymour, Ph.D. Carnegie Institution of Washington, Dept. of Embryology, Baltimore 5, Md. *Investigator.* (1, 1956)

Katz, Joseph, Ph.D. Inst. of Med. Research, Cedars of Lebanon Hosp., Los Angeles, Calif. *Research Assoc.* (2, 1955)

Katz, Louis Nelson, M.D. 2900 Ellis Ave., Chicago, Ill. *Dir., Cardiovascular Dept., Medical Research Inst., Michael Reese Hosp.* (1, 1924)

Katzman, Philip A., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Prof. of Biochemistry.* (2, 1935)

Kaufman, Nathan, M.D. Cleveland City Hospital, 3395 Scranton Rd., Cleveland 9, Ohio. *Pathologist-in-Charge; Assoc. Prof. of Pathology, Western Reserve Univ.* (4, 1953)

Kaufman, Seymour, Ph.D. Natl. Inst. for Mental Health, NIH, Bethesda 14, Md. (2, 1953)

Kaulbersz, Jerzy, Ph.D. M.D. Collegium Medicum, Grzegorzecka 16, Cracow, Poland. *Prof. of Physiology.* (1, 1944)

Kaunitz, Hans, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St.,

New York City 32. *Research Assoc. in Pathology.* (**4,** 1947)

Kay, Ernest R. M., Ph.D. Dalhousie Univ. Med. School, Halifax, Canada. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1957)

Kazal, Louis Anthony, Ph.D. Charlotte Drake Cardeza Fndn., Jefferson Med. College and Hosp., Philadelphia, Pa. *Assoc. Member and Head, Sec. on Blood and Plasma Fractionation; Asst. Prof. of Physiology.* (**2,** 1947)

Kearney, Edna B., Ph.D. Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research, Henry Ford Hosp., Detroit 2, Mich. (**2,** 1953)

Keasling, Hugh H., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1953)

Keats, Arthur S., M.D. Jefferson Davis Hosp., Houston 3, Texas. *Prof. of Anesthesiology, Baylor Univ. College of Medicine.* (**3,** 1951)

Kehoe, Robert A., M.D. Univ. of Cincinnati College of Medicine, Kettering Lab., Cincinnati, Ohio. *Dir., Dept. of Preventive Medicine and Industrial Health.* (**1,** 1940)

Keighley, Geoffrey, Ph.D. California Inst. of Technology, 1201 E. California St., Pasadena 4. *Sr. Research Fellow.* (**1,** 1954)

Keiles, Elsa Orent, D.Sc. Natl. Heart Inst., NIH, Bethesda 14, Md. *Biochemist.* (**2,** 1935; **5,** 1935)

Keith, Norman M., M.D. Mayo Clinic, Rochester, Minn. *Consulting Physician Emeritus, Div. of Medicine, Mayo Clinic; Prof. of Medicine Emeritus, Mayo Foundation, Univ. of Minnesota.* (**1,** 1920; **3R,** 1932; **4,** 1924)

Keith, T. B., Ph.D. Dept. of Animal Husbandry, Univ. of Idaho, Moscow. *Professor.* (**5,** 1941)

Kellaway, Peter, Ph.D. Baylor Univ. College of Medicine, Houston, Texas. *Assoc. Prof. of Neurology and Physiology; Dir. of Lab. of Clin. Electrophysiology.* (**1,** 1947)

Keller, Allen D., Ph.D. Army Med. Research Lab., Fort Knox, Ky. (**1,** 1931)

Keller, Elizabeth B., Ph.D. Massachusetts Gen. Hosp., Huntington Lab., Boston 14. *Research Assoc. in Medicine, Harvard Med. School.* (**2,** 1955)

Kellner, Aaron, M.D. Cornell Univ. Med. College, Dept. of Pathology, 1300 York Ave., New York City 21. *Assoc. Prof. of Pathology; Dir. of Central Labs., New York Hospital–Cornell Med. Center.* (**4,** 1949)

Kellogg, Ralph H., M.D., Ph.D. Univ. of California, Berkeley 4. *Asst. Prof. of Physiology.* (**1,** 1956)

Kelly, Lola S., Ph.D. Univ. of California, Donner Lab., Berkeley. *Research Assoc. in Med. Physics.* (**1,** 1956)

Kelsey, F. Ellis, Ph.D. Univ. of South Dakota, Dept. of Pharmacology, Vermillion. *Prof. of Pharmacology; Chairman of Depts. of Physiology and of Pharmacology.* (**3,** 1941)

Kelsey, Frances Kathleen O., Ph.D., M.D. Univ. of South Dakota, Dept. of Physiology and Pharmacology, Vermillion. *Assoc. Prof. in Medicine.* (**3,** 1941)

Kemmerer, A. R., Ph.D. Univ. of Arizona, Tucson. *Head of Dept. of Agric. Biochemistry.* (**5,** 1946)

Kempe, C. Henry, M.D. Univ. of Colorado Med. Ctr., Dept. of Pediatrics, Denver. *Prof. and Head of Dept.* (**6,** 1951)

Kempner, Walter, M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Medicine.* (**1,** 1940)

Kendall, Edward C., Ph.D. 3 Queenston Place, Princeton, N. J. *Visiting Prof. in Chemistry, James Forrestal Research Center, Princeton Univ.* (**1,** 1916; **2R,** 1913; **4R,** prior to 1920).

Kendall, Forrest E., Ph.D. 240–06 53rd Ave., Douglaston, Long Island, N. Y. *Prof. of Biochemistry, Columbia Univ.* (**6,** 1943)

Kennard, Margaret A., M.D. Mental Health Research Inst., Fort Steilacoom, Wash. (**1,** 1934)

Kennedy, Cornelia, Ph.D. 2700 W. Robbins St., Minneapolis 10, Minn. *Assoc. Prof. Emeritus of Agricultural Biochemistry, Univ. of Minnesota.* (**2R,** 1924; **5R,** 1934)

Kennedy, Eugene P., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Professor.* (**2,** 1953)

Kennedy, Thomas J., Jr., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Research Assoc., Lab. of Kidney and Electrolyte Metabolism.* (**1,** 1953)

Kensler, Charles J., Ph.D. Boston Univ. School of Medicine, Dept. of Pharmacology and Expt'l. Therapeutics, Boston, Mass. *Prof. and Chairman of Dept.* (**3,** 1949)

Kent, John F., Ph.D. Walter Reed Army Inst. of Research, Dept. of Serology, Walter Reed Army Med. Ctr., Washington 12, D. C. *Chief.* (**6,** 1947)

Kent, Sidney Page, M.D. Univ. of Alabama Med. Ctr., Dept. of Pathology, Birmingham 3. *Assoc. Prof.* (**4,** 1957)

Kenton, Harold B., Ph.D. New England Deaconess Hospital, Boston, Mass. *Bacteriologist and Dir. of the Blood Bank.* (**6,** 1934)

Kenyon, Allan T., M.D. Univ. of Chicago, Div. of Biological Sciences, 950 E. 59th St., Chicago 37, Ill. *Prof. of Medicine.* (**3,** 1940)

Keresztesy, John C., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Section on Fractionation and Isolation.* (**2,** 1941; **5,** 1945)

Kerr, Stanley E., Ph.D. American Univ. of Beirut, Beirut, Lebanon. *Prof. of Biological Chemistry.* (**2,** 1937)

Kerr, W. J., M.D. Kerrydale Ranch, Box 338, Blue Lake, Humboldt Co., Calif. (**3R,** 1930)

Kesten, Homer D., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Pathology, Columbia Univ.; Dir. of Labs., White Plains Hosp.* (**4,** 1931)

Keston, Albert S., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Kety, Seymour S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Clinical Science, Natl. Inst. of Mental Health.* (**1,** 1949; **3,** 1945)

Keyl, Alexander C., Ph.D. Northwestern Univ. School of Medicine, Chicago 11, Ill. *Asst. Prof. of Pharmacology.* (**3,** 1957)

Keys, Ancel, Ph.D. Univ. of Minnesota, Stadium Gate 27, Minneapolis 14. *Prof. and Dir. of Lab. of Physiological Hygiene.* (**1,** 1939; **2,** 1936)

Khorana, H. Gobind, Ph.D. British Columbia Research Council, Univ. of British Columbia, Vancouver, Canada. *Head, Organic Chemistry Sec.* (**2,** 1957)

Kibrick, Andre C., Ph.D. VA Hosp., 408 First Ave., New York City 10. *Biochemist.* (**2,** 1950)

Kidd, John G., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Pathology; Pathologist-in-Chief, New York Hospital.* (**4,** 1937; **6,** 1937)

Kidder, George W., Ph.D. Amherst College, Amherst, Mass. *Stone Prof. of Biology.* (**2,** 1949)

Kielley, Ruth K., Ph.D. National Cancer Inst., NIH, Bethesda 14, Md. *Biochemist.* (**2,** 1957)

Kielley, W. Wayne, Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chemist.* (**2,** 1953)

Kies, Marian W., Ph.D. Natl. Inst. of Mental Health, Lab. of Clin. Science, NIH, Bethesda 14, Md. *Chief, Sec. on Biochemistry; Biochemist.* (**2,** 1948)

Kik, M. C., Ph.D. Univ. of Arkansas College of Agriculture, Fayetteville. *Prof. of Agricultural Chemistry.* (**5,** 1942)

Kilborn, L. G., M.D., Ph.D. Univ. of Hong Kong, Dept. of Physiology, Hong Kong. *Prof. of Physiology.* (**1,** 1928)

Kilbourne, Edwin Dennis, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof., Public Health and Preventive Medicine.* (**6,** 1953)

Kilham, Lawrence, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., PHS.* (**6,** 1950)

Killam, Eva King, Ph.D. Univ. of California College of Medicine, Dept. of Anatomy, Los Angeles 24. *Research Pharmacologist.* (**3,** 1953)

Killian, John Allen, Ph.D. Killian Research Labs., Inc., 2 East End Ave., New York City. (**2,** 1921)

Kimeldorf, Donald J., Ph.D. U. S. Naval Radiological Defense Lab., Div. of Biological and Med. Sciences, San Francisco 24, Calif. *Head, Physiology-Psychology Br.* (**1,** 1955)

Kimmel, Joe R., M.D., Ph.D. Univ. of Utah, Metabolic Lab., Salt Lake City. *Asst. Research Prof. of Biochemistry.* (**2,** 1957)

Kimura, Eugene T., Ph.D. Abbott Labs., Dept. of Pharmacology, North Chicago, Ill. *Pharmacologist.* (**3,** 1954)

Kimura, Kazuo K., Ph.D., M.D. Chemical Warfare Labs., Directorate of Med. Research, Clin. Research Div., Army Chemical Center, Md. *Chief, Neurology Br.* (**3,** 1950)

Kinard, F. W., Ph.D., M.D. Med. College of South Carolina, Charleston 16. *Prof. of Physiology.* (**1,** 1947)

King, Barry G., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Med. Div., Washington, D. C. *Research Exec.* (**1,** 1938)

King, Charles Glen, Ph.D. Nutrition Foundation, Inc., 99 Park Ave., New York City. *Exec. Dir.; Prof. of Chemistry, Columbia Univ.* (**2,** 1931; **5,** 1933)

King, Henry Eugene, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry and Neurology, 1430 Tulane Ave., New Orleans 12, La. *Assoc. Prof.* (**1,** 1950)

King, Joseph T., M.D., Ph.D. Univ. of Minnesota Med. School, 314 Millard Hall, Minneapolis. *Prof. of Physiology.* (**1,** 1931)

King, Tsoo E., Ph.D. Molteno Inst., Univ. of Cambridge, Cambridge, England. (**2,** 1952)

Kinney, Thomas D., M.D. Cleveland City Hospital, 3395 Scranton Rd., Cleveland, Ohio. *Dir. of Pathology; Prof. of Pathology, Western Reserve Univ.* (**4,** 1950)

Kinosita, Riojun, Ph.D., M.D. City of Hope Med. Ctr., Duarte, Calif. *Chairman, Dept. of Cytology and Genetics.* (**4,** 1955)

Kinsey, V. Everett, Ph.D. 690 Mullett St., Detroit 26, Mich. *Asst. Dir. of Research, Kresge Eye Inst.* (**2,** 1957)

Kinter, William Boardman, Ph.D. Harvard Med. School, Dept. of Physiology, Boston 15, Mass. *Associate.* (**1,** 1957)

Kirch, Ernst R., Ph.D. Univ. of Illinois, 833 S. Wood St., Chicago 12. *Prof. of Chemistry.* (**2,** 1948)

Kirchhof, Anton C., M.D. 758 S. View Rd., Oswego, Ore. *Anesthesiologist, Providence Hosp., Portland.* (**3,** 1947)

Kirk, John E., M.D. Washington Univ. School of Medicine, 5600 Arsenal St., St. Louis 9, Mo. *Research Dir., Gerontology.* (**2,** 1950)

Kirk, Paul L., Ph.D. Univ. of California, Berkeley. *Prof. of Criminalistics.* (**2,** 1933)

Kirkwood, Sam, Ph.D. Univ. of Minnesota, Dept. of Agric. Biochemistry, Inst. of Agriculture, St. Paul 1. (**2,** 1954)

Kirschbaum, Arthur, M.D., Ph.D. Baylor Univ. College of Medicine, Dept. of Anatomy, Houston, Tex. *Prof. and Chairman of Dept.* (**4,** 1948)

Kisch, Bruno, M.D. Yeshiva Univ., New York City. *Prof. of Biochemistry.* (**1,** 1943)

Kit, Saul, Ph.D. M.D. Anderson Hosp. and Tumor Inst., Texas Med. Ctr., Houston. *Asst. Biochemist.* (**2,** 1957)

Kitchen, Stuart F., M.D., M.P.H. Dept. of Natl. Health and Welfare, Lab. of Hygiene, Ottawa, Ont., Canada. (**6,** 1953)

Kleeman, Charles Richard, M.D. VA Hosp., Los Angeles 25, Calif. *Chief, Metabolic Service; Assoc. Clin. Prof. of Medicine, Univ. of California Med. School.* (**1,** 1957)

Kleiber, M., D.Sc. Univ. of California, Davis. *Prof. of Animal Husbandry.* (**1,** 1943; **5,** 1933)

Klein, J. Raymond, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biochemist, Dept. of Biology.* (**2,** 1941)

Klein, Michael, Ph.D. Univ. of Tennessee Med. Units, Dept. of Anatomy, Memphis 3. *Asst. Dir.* (**4,** 1954)

Kleiner, Israel Simon, Ph.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City 29. *Prof. of Biochemistry; Dir., Dept. of Biochemistry.* (**1,** 1911; **2R,** 1912; **3R,** 1912; **5R,** 1933)

Kleinerman, Jerome, M.D. St. Luke's Hosp., 11311 Shaker Blvd., Cleveland 4, Ohio. *Assoc. Dir., Dept. of Med. Research; Asst. Prof. of Pathology, Western Reserve Univ.* (**4,** 1954)

Kleitman, Nathaniel, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1,** 1923)

Klemperer, Friedrich W., M.D. Veterans Admin. Hospital, Sunmount, New York. *Chief of Med. Service.* (**2,** 1941)

Kletzien, Seymour W., Ph.D. 319 S. Chester Rd., Swarthmore, Pa. *Biochemist, Cooper Hosp., Camden, N. J.* (**5,** 1933)

Kline, Daniel L., Ph.D. Yale Med. School, Dept. of Physiology, New Haven, Conn. *Assoc. Prof.* (**1,** 1955)

Kline, O. L., Ph.D. Dept. of Health, Education and Welfare, Food and Drug Admin., Washington 25, D. C. *Biochemist.* (**5,** 1936)

Kline, Raymond F., Ph.D. 6832 Knollwood Dr., Dayton 3, Ohio. *Research Physiologist, Aero Med. Lab., Wright Air Development Center, Wright-Patterson Air Force Base.* (**1,** 1946)

Klitgaard, Howard M., Ph.D. Marquette Univ. School of Medicine, Dept. of Physiology, Milwaukee 3, Wis. *Asst. Prof.* (**1,** 1956)

Klotz, Irving M., Ph.D. Northwestern Univ., Evanston, Ill. *Prof. of Chemistry.* (**2,** 1947)

Klüver, Heinrich, Ph.D. Univ. of Chicago, Culver Hall, Chicago, Ill. *Prof. of Exptl. Psychology, Div. of the Biological Sciences.* (**1,** 1935)

Knight, C. Arthur, Ph.D. Univ. of California, Biochemistry and Virus Lab., Berkeley 4. *Prof. of Biochemistry; Research Biochemist.* (**2,** 1946)

Knisely, Melvin H., Ph.D. Med. College of South Carolina, Charleston. *Chairman of Dept. of Anatomy.* (**1,** 1949)

Knöbil, Ernest, Ph.D. Harvard Med. School, Boston 15, Mass. *Asst. Prof. of Physiology.* (**1,** 1955)

Knodt, Cloy B., Ph.D. Cargill, Inc., 200 Grain Exchange Bldg., Minneapolis, Minn. *Research Farm Dir.* (**5,** 1954)

Knoefel, Peter K., M.D., Univ. of Louisville, 101 W. Chestnut St., Louisville 2, Ky. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1934)

Knowlton, Frank P., M.D. Syracuse Univ. College of Medicine, Syracuse, N. Y. *Prof. Emeritus of Physiology.* (**1R,** 1911)

Knowlton, G. Clinton, Ph.D. Greenville, Ga. (**1,** 1938)

Knox, W. Eugene, M.D. New England Deaconess Hosp., Boston 15, Mass. *Asst. Prof. of Biological Chemistry, Harvard Med. School.* (**2,** 1948)

Knudson, Arthur, Ph.D., D.Sc. Kentucky Contract Team, Universitas Indonesia, Baranangsiang, Bogor, Indonesia. *Prof. of Biochemistry.* (**2R,** 1919; **5,** 1936)

Knutti, Ralph Eddy, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Extramural Programs, Natl. Inst. of Arthritis and Metabolic Diseases.* (**4,** 1933)

Kobayashi, Yoshito, M.D. Univ. of Tokyo, Faculty of Medicine, Bunkyo-ku, Tokyo, Japan. *Prof. of Pharmacology.* (**3,** 1953)

Kober, Philip A., B.S. Sherman Labs., Detroit, Mich. *Dir. of Chem. Research.* (**2R,** 1912)

Kobrak, Heinrich G., Ph.D. 8551 Allen Rd., Rt. 2, Clarkston, Mich. (**1,** 1948)

Koch, Arthur L., Ph.D. Univ. of Florida, Dept. of Biochemistry, Gainesville. *Asst. Prof.* (**2,** 1956)

Kochakian, Charles D., Ph.D. Univ. of Alabama Med. Ctr., Dept. of Physiology, Birmingham 3. *Professor.* (**1,** 1942; **2,** 1948)

Kocher, Rudolph Alfred, M.D. Box 936, Carmel, Calif. (**2R,** 1915)

Kocholaty, Walter F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Chief, Microbiology Sec.* (**2,** 1950)

Kocsis, James J., Ph.D. Jefferson Med. College, Philadelphia 7, Pa. *Instructor in Pharmacology.* (**3,** 1957)

Koehler, Alfred E., M.D., Ph.D. 225 Canon Dr. Santa Barbara, Calif. *Physician.* (**2,** 1924)

Koehn, Carl J., Ph.D. Fitzsimons Army Hosp., Med. Nutrition Lab., Denver 8, Colo. *Deputy Cmding. Officer.* (**5,** 1949)

Koehne, Martha, Ph.D. 1303 E. Main St., Columbus 5, Ohio. (**5R,** 1933)

Koella, Werner Paul, M.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. (**1,** 1954).

Koelle, George B., Ph.D., M.D. Univ. of Pennsylvania, Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Prof. of Pharmacology and Chairman of Dept.* (**3,** 1947)

Koenig, Virgil L., Ph.D. Northwestern Univ. Med. School, Dept. of Biochemistry, Chicago 11, Ill. (**2,** 1953)

Koepf, George F., M.D. 537 Delaware Ave., Buffalo 2, N. Y. *Assoc. in Physiology and in Medicine, Univ. of Buffalo.* (**1,** 1942)

Koerber, Walter L., Ph.D. E. R. Squibb and Sons, Caixa Postal 7225, São Paulo, Brazil. *Dir. of Research and Development.* (**6,** 1943)

Kohlstaedt, Kenneth G., M.D. Lilly Lab. for Clinical Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Director; Prof. of Medicine, Indiana Univ. School of Medicine.* (**1,** 1947)

Kohn, Henry I., Ph.D., M.D. Univ. of California Med. Ctr., Radiological Lab., San Francisco 22. *Clinical Prof. of Exptl. Radiology.* (**1,** 1940)

Koizumi, Kiyomi, M.D. State Univ. of New York College of Medicine, Brooklyn 3. *Asst. Prof. of Physiology.* (**1,** 1957)

Koletsky, Simon, M.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland 6, Ohio. *Prof. of Pathology.* (**4,** 1951)

Kolff, W. J., M.D. Cleveland Clinic, Research Div., Cleveland, Ohio. *Member Staff.* (**1,** 1956)

Kolmer, John A., M.D., D.P.H. 2101 Pine St., Philadelphia, Pa. *Prof. of Medicine, Temple Univ.; Dir. of Inst. of Public Health and Preventive Medicine.* (**6R,** 1913)

Komarov, Simon A., M.D., Ph.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Assoc. Prof. of Research Physiology.* (**1,** 1933)

Kopeloff, Nicholas, Ph.D. 23 Haven Ave., New York City 32. (**6R,** 1937)

Koppanyi, Theodore, Ph.D. Georgetown Univ. School of Medicine, Washington 7, D. C. *Prof. of Pharmacology.* (**1,** 1924; **3,** 1935)

Koprowski, Hilary, M.D. Wistar Inst., 36th & Woodland Ave., Philadelphia 4, Pa. *Director.* (**6,** 1946)

Korn, Edward D., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Biochemist, Lab. of Cellular Physiology and Metabolism.* (**2,** 1957)

Kornberg, Arthur, M.D. Washington Univ., School of Medicine, St. Louis 10, Mo. *Prof. and Head, Dept. of Microbiology.* (**2,** 1949)

Kornetsky, Conan, Ph.D. Natl. Inst. of Mental Health, Lab. of Clin. Science, NIH, Bethesda 14, Md. *Research Psychologist.* (**3,** 1957)

Korngold, Leonhard, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 E. 68th St., New York City 21. *Asst. in Immunochemistry.* (**6,** 1954)

Korr, Irvin M., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Prof. of Physiology.* (**1,** 1939)

Korson, Roy, M.D. Univ. of Vermont, College of Medicine, Burlington. *Assoc. Prof. of Pathology.* (**4,** 1956)

Koshland, D. E., Jr., Ph.D. Brookhaven Natl. Lab., Upton, N. Y. *Biochemist.* (**2,** 1954)

Koshland, Marian Elliott, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Assoc. Bacteriologist.* (**6,** 1950)

Kosman, A. J., Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof.* (**1,** 1949)

Koster, Rudolf, Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. *Pharmacologist.* (**3,** 1949)

Kotin, Paul, M.D. Univ. of Southern California School of Medicine, Los Angeles 33. *Assoc. Prof. of Pathology.* (**4,** 1957)

Kottke, Frederic J., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Physical Medicine and Rehabilitation.* (**1,** 1947)

Kozelka, Frank L., Ph.D. Univ. of Wisconsin, Univ. Hosp. and State Lab. of Hygiene, Madison 6. *Prof. of Clin. Pathology.* (**3,** 1939)

Kozloff, Lloyd M., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1951)

Kraatz, Charles P., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 3, Pa. *Prof. of Pharmacology.* (**3,** 1950)

Krahl, Maurice E., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Physiology.* (**2,** 1939; **3,** 1949)

Krakower, Cecil Alexander, M.D. Univ. of Illinois College of Medicine, 1853 West Polk St., Chicago. *Prof. of Pathology.* (**4,** 1945)

Kramer, Benjamin, M.D. 4802–10th Ave., Brooklyn 19, N. Y. *Chief Pediatrician, Maimonides Hosp.; Clin. Prof. of Pediatrics, State Univ. of New York at New York City.* (**1,** 1915; **2,** 1914)

Kramer, Martha, Ph.D. Kansas State College, Manhattan. *Asst. Dean, School of Home Economics.* (**5,** 1933)

Krampitz, Lester O., Ph.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland 6, Ohio. *Prof. of Microbiology; Dir. of Dept.* (**2,** 1946; **6,** 1949)

Krantz, John C., Jr., Ph.D. Univ. of Maryland Med. School, Baltimore 1. *Prof. of Pharmacology.* (**3,** 1937)

Kratzer, F. H., Ph.D. Univ. of California, Dept. of Poultry Husbandry, Davis. *Professor.* (**5,** 1949)

Krause, Reginald F., Ph.D., M.D. West Virginia Univ. School of Medicine, Dept. of Biochemistry, Morgantown. *Prof. and Head of Dept.* (**2,** 1955)

Krauss, William E., Ph.D. Ohio Agricultural Exper. Station, Wooster. *Assoc. Dir.* (**2,** 1932; **5,** 1933)

Kraybill, Herman F., Ph.D. Fitzsimons Army Hosp., Med. Nutrition Lab., Denver 8, Colo. *Chief of Chemistry Div.* (**5,** 1956)

Krayer, Otto, M.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Charles Wilder Prof. of Pharmacology and Head of Dept.* (**3,** 1938)

Krebs, Edwin G., M.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Professor.* (**2,** 1952)

Kreezer, George L., Ph.D. Washington Univ., St. Louis 5, Mo. *Prof. of Psychology.* (**1,** 1948)

Krehl, Willard A., Ph.D., M.D. Yale Univ., 333 Cedar St., New Haven Conn. *Assoc. Prof. of Nutrition.* (**2,** 1947; **5,** 1949)

Krieger, Carl H., Ph.D. Campbell Soup Co., Camden, N. J. *Dir., Basic Research and Product Development.* (**5,** 1954)

Krieger, Howard P., M.D. Mt. Sinai Hosp., New York City 29. *Asst. Attending Neurologist.* (**1,** 1956)

Kritchevsky, Theodore H., Ph.D. 9010 S. Clyde St., Chicago 17, Ill. *Vice-Pres., Ninol Labs.* (**2,** 1952)

Kroc, Robert L., Ph.D. Warner-Chilcott Labs., Morris Plains, N. J. *Dir. of Physiological Research.* (**1,** 1957)

Krop, Stephen, Ph.D. Ethicon, Inc., Somerville, N. J. *Chief, Pharmacology Dept.* (**1,** 1949; **3,** 1944)

Krueger, Albert Paul, M.D. Univ. of California, Berkeley. *Prof. of Bacteriology (Emeritus); Lecturer in Medicine (Emeritus).* (**4,** 1930; **6,** 1937)

Krueger, Hugo, Ph.D. Oregon State College, Dept. of Dairy and Animal Husbandry, Corvallis. *Prof. of Physiology.* (**1,** 1931; **3,** 1935)

Krumbhaar, Edward B., M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. Emeritus of Pathology.* (**1R,** 1914; **4R,** prior to 1920)

Kruse, Harry Dayton, M.D., Sc.D. New York Academy of Medicine, 2 E. 103rd St., New York City 29. *Exec. Secy., Committee on Public Health.* (**2,** 1933; **5,** 1950)

Kruse, Theophile K., Ph.D. Univ. of Pittsburgh Med. School, Pittsburgh 13, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1919; **3,** 1920)

Kubicek, William G., Ph.D. Univ. of Minnesota Hospitals, Dept. of Physical Medicine and Rehabilitation, Minneapolis. *Professor.* (**1,** 1947)

Kubie, Lawrence S., M.D. 7½ E. 81st St., New York City 28. *Clin. Prof. of Psychiatry, Yale Univ. School of Medicine; Lecturer in Psychiatry, Columbia Univ. College of Physicians and Surgeons.* (**4,** 1928)

Kuby, Stephen A., Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison 6. *Asst. Prof.* (**2,** 1957)

Kuffler, Stephen W., M.D. Johns Hopkins Med. School, Wilmer Inst., Baltimore 5, Md. *Prof. of Ophthalmic Physiology and Biophysics.* (**1,** 1949)

Kuhn, Harry A., M.S. Suite 900, Albee Bldg., 1426 G St., N. W., Washington 5, D. C. *Consultant.* (**3,** 1927)

Kuhns, William J., M.D. Central Blood Bank and Dept. of Pathology, Falk Clinic, Univ. of Pittsburgh Med. Ctr., Pittsburgh 13, Pa. (**6,** 1954)

Kuiken, Kenneth A., Ph.D. Buckeye Cellulose Corp., Cellulose and Specialties Technical Div., Memphis 8, Tenn. (**2,** 1950)

Kuizenga, Marvin H., Ph.D. Upjohn Company, Kalamazoo, Mich. *Asst. Dir., Biological Research.* (**2,** 1947)

Kulka, Johannes P., M.D. Harvard Med. School, Boston 15, Mass. *Assoc. in Pathology, Peter Bent Brigham Hosp.* (**4,** 1957)

Kummerow, Fred A., Ph.D. Univ. of Illinois, Dept. of Food Technology, Urbana. *Assoc. Prof. of Food Chemistry.* (**5,** 1957)

Kun, Ernest, M.D. Univ. of California School of Medicine, Dept. of Pharmacology, San Francisco 22. *Estab. Investigator, Am. Heart Assn.* (**2,** 1954; **3,** 1949)

Kunde, Margarete M., Ph.D., M.D. 30 N. Michigan Ave., Suite 1308, Chicago, Ill. *Instr. in Medicine, Northwestern Univ. Med. School.* (**1R,** 1924)

Kunitz, Moses, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2R,** 1947)

Kunkel, Harriott O., Ph.D. Texas A. and M. College, Dept. of Biochemistry and Nutrition, College Station. *Professor.* (**2,** 1954)

Kunkel, Henry G., M.D. Rockefeller Inst., 66 and York Ave., New York City. *Member.* (**2,** 1953)

Kupke, D. W., Ph. D. Univ. of Virginia School of Medicine, Charlottesville. *Asst. Prof. of Biochemistry.* (**2,** 1957)

Kupperman, Herbert S., M.D., Ph.D. New York Univ. Post Grad. Med. School, Dept. of Therapeutics, 550 First Ave., New York City. *Assoc. Prof. of Medicine.* (**3,** 1950)

Kurtz, Alton C., Ph.D. Univ. of Oklahoma Med. School, Dept. of Biochemistry, Oklahoma City. *Professor.* (**2,** 1942)

Kuschner, Marvin, M.D. New York Univ. College of Medicine, New York City 16. *Prof. of Pathology; Dir. of Pathology, Bellevue Hosp.* (**4,** 1956)

Kuyper, Adrian C., Ph.D. Wayne State Univ. College of Medicine, 1401 Rivard, Detroit 7, Mich. *Asst. Prof. of Physiological Chemistry.* (**2,** 1946)

Kwit, Nathaniel T., M.D. New York Univ. College of Dentistry, Dept. of Pharmacology, New York City. *Asst. Prof.* (**3,** 1955)

Kydd, D. M., M.D. State Univ. of New York Med. Center at New York, Dept. of Internal Medicine, Brooklyn 3. *Assoc. Prof. of Medicine.* (**5,** 1934)

Kyker, Granvil C., Ph.D. Oak Ridge Inst. of Nuclear Studies, Med. Div., P.O. Box 117, Oak Ridge, Tenn. *Chief Scientist.* (**2,** 1947)

La Belle, Annette, B.A. 218 W. Thomas St., Rome, N. Y. (**1,** 1948)

Lackey, Robert W., Ph.D. Univ. of Texas, Southwestern Med. School, Dallas 19. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1947)

Lackman, David B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Chief, Serology-Pathology Section.* (**6,** 1952)

Lacorte, Jose G., M.D. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, S. A. *Chief, Virus Section; Prof., Univ. of Brazil.* (**6,** 1946)

Lacy, G. R., M.D. 1364 Navahoe Dr., Pittsburgh 28, Pa. (**4R,** 1927)

Lacy, Paul E., Ph.D., M.D. Washington Univ. School of Medicine, Dept. of Pathology, St. Louis, Mo. *Instructor.* (**4,** 1957)

La Du, Bert N., Jr., M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Clin. Investigator, Arthritis and Rheumatism Br.* (**2,** 1956)

Laird, Anna Kane, M.D., Ph.D. Argonne Natl. Lab., Lemont, Ill. *Assoc. Biologist.* (**4,** 1954)

Lalich, Joseph J., M.D. Univ. of Wisconsin, 426 N. Charter St., Madison 6. *Prof. of Pathology.* (**4,** 1946)

Lamb, Alvin R., Ph.D. 60 Mariposa Ave., Los Gatos, Calif. (**2R,** 1923; **5,** 1934)

Lambert, Edward H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Physiology.* (**1,** 1945)

Lambert, Robert A., M.D. Box 54, Fairhope, Ala. (**4,** 1922)

Lambertsen, Christian J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pharmacology.* (**1,** 1955· **3,** 1948)

Lambooy, John P., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Physiology, Rochester 20, N. Y. *Assoc. Prof. of Physiology.* (**2,** 1953)

Lampen, J. Oliver, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir., Div. of Biochemical Research.* (**2,** 1947)

Lamport, Harold, M.D. Yale Univ. School of Medicine, New Haven, Conn. *Research Assoc. in Physiology.* (**1,** 1943)

Lamson, Baldwin G., Univ. of California, School of Medicine, Los Angeles 24. *Assoc. Prof. of Pathology.* (**4,** 1952)

Lamson, Paul Dudley, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. Emeritus of Pharmacology.* (**1R,** 1921; **3R,** 1915)

Lancefield, Rebecca C., Ph.D. 66th St. and York Ave., New York City 21. *Assoc. Member, Rockefeller Inst. for Med. Research.* (**6,** 1933)

Landau, William M., M.D. Washington Univ. Med. School, St. Louis 10, Mo. *Asst. Prof. of Neurology.* (**1,** 1955)

Landing, Benjamin H., M.D. Children's Hosp. and Research Fndn., Cincinnati 29, Ohio. *Directing Pathologist; Asst. Prof. of Pathology and Pediatrics, Univ. of Cincinnati.* (**4,** 1957)

Landis, Carney, Ph.D. Columbia Univ., Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Psychologist and Prof. of Psychology.* (**1,** 1939)

Landis, Eugene Markley, Ph.D., M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *George Higginson Prof. of Physiology.* (**1,** 1928)

Landowne, Milton, M.D. Baltimore City Hosps., Baltimore 24, Md. *Assoc. Chief, Gerontology Br., Natl. Heart Inst., NIH, Bethesda.* (**1,** 1947)

Lands, Alonzo M., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Asst. Dir., Biology Div. and Head, Pharmacology Section.* (**1,** 1942; **3,** 1947)

Landy, Maurice, Ph.D. Natl. Cancer Inst., Lab. of Chemical Pharmacology, NIH, Bethesda 14, Md. *Head, Polysaccharide Sec.* (**6,** 1952)

Lane, Charles E., Ph.D. Univ. of Miami, Marine Lab., Coral Gables, Fla. *Research Assoc.; Assoc. Prof. of Marine Biology.* (**1,** 1952)

Langdell, Robert D., M.D. Univ. of North Carolina, Dept. of Pathology, Chapel Hill. *Asst. Prof.* (**4,** 1957)

Langdon, Robert G., Ph.D., M.D. Johns Hopkins School of Medicine, Dept. of Physiological Chemistry, Baltimore 5, Md. *Asst. Prof.* (**2,** 1956)

Lange, Kurt, M.D. New York Med. College, Metropolitan Med. Ctr., New York City 29. *Assoc. Prof., Clin. Medicine; Assoc. Prof., Clin. Pediatrics (Research).* (**4,** 1957)

Langemann, Heinrich, M.D. Pharmakologisches Inst., Univ. of Zurich, Zurich, Switzerland. *Assistant.* (**3,** 1953)

Langham, Wright H., Ph.D. Univ. of California, Los Alamos Scientific Lab., Health Div., P. O. Box 1663, Los Alamos, N. M. *Group Leader, Biomedical Research Group.* (**2,** 1951)

Langley, L. L., Ph.D., LL.B. Med. College of Alabama, Birmingham 5. *Assoc. Prof. of Physiology.* (**1,** 1951)

Langley, Wilson D., Ph.D. Univ. of Buffalo Med.

School, 3435 Main St., Capen Hall, Buffalo, N. Y. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1937)

Lanni, Frank, Ph.D. Dept. of Bacteriology, Emory Univ., Emory University, Ga. (**6,** 1949)

Lanphier, Edward H., M.D. U. S. Navy Exptl. Diving Unit, Naval Gun Factory, Washington 25, D. C. *Asst. Med. Officer; Physiologist.* (**1,** 1956)

Lapicque, L. The Sorbonne, Lab. of Physiology, Paris, France. (**1H,** 1946)

Laqueur, Gert Ludwig, M.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. (**4,** 1952)

Lardy, Henry A., Ph.D. Inst. for Enzyme Research, Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1946)

Larner, Joseph, M.D., Ph.D. Western Reserve Univ. School of Medicine, Dept. of Pharmacology, Cleveland 6, Ohio. *Assoc. Prof.* (**2,** 1953)

Larrabee, Martin G., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. *Assoc. Prof.* (**1,** 1940)

Larsen, Eleanor M., Ph.D. Univ. of Wisconsin, Dept. of Physiology, S. M. I., Madison 6. *Asst. Prof. of Physiology.* (**1,** 1949)

Larson, Bruce L., Ph.D. Univ. of Illinois, Urbana. *Asst. Prof. of Dairy Biochemistry.* (**2,** 1957)

Larson, Carl L., M.D. Rocky Mountain Lab., PHS Natl. Inst. of Allergy and Infectious Diseases, NIH, Hamilton, Mont. *Director.* (**6,** 1948)

Larson, Daniel L., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Asst. Prof. of Medicine.* (**6,** 1953)

Larson, Edward, Ph.D. Dept. of Zoology, Univ. of Miami, Coral Gables 46, Fla. *Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1937)

Larson, Hardy W., Ph.D. Metropolitan Life Insurance Co., Biochemical Lab., 1 Madison Ave., New York City. *Research Chemist.* (**2,** 1937)

Larson, Paul S., Ph.D. Med. College of Virginia, Richmond 19. *Prof. of Pharmacology.* (**1,** 1939; **3,** 1947)

Lasagna, Louis, M.D. Johns Hopkins Med. School, Depts. of Pharmacology and Medicine, 710 N. Washington St., Baltimore, Md. (**3,** 1953)

Lashley, K. S., Ph.D. Yerkes Labs., Orange Park, Fla. *Research Prof. Emeritus of Neuropsychology, Harvard Univ.; Dir. Emeritus, Yerkes Labs. of Primate Biology, Inc.* (**1R,** 1923)

Laskowski, M., Ph.D. Marquette Univ. Med. School, Milwaukee 3, Wis. *Prof. of Biochemistry.* (**2,** 1944)

Laskowski, M., Jr., Ph.D. Purdue Univ., Dept. of Chemistry, Lafayette, Ind. *Asst. Prof.* (**2,** 1957)

Last, Jules H., Ph.D., M.D. 2360 Woodpath, Highland Park, Ill. *Asst. Prof. of Medicine, Northwestern Univ. Med. School, Chicago.* (**3,** 1948)

Latta, Harrison, M.D. Univ. of California School of Medicine, Los Angeles. *Assoc. Prof. of Pathology.* (**4,** 1954)

Lauffer, Max A., Jr., Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Dean, Div. of Natural Sciences and Prof. of Biophysics.* (**2,** 1946)

Laug, E. P., Ph.D. Food and Drug Admin., Div. of Pharmacology, 12th and C Sts. S. W., Washington 25, D. C. *Sr. Pharmacologist.* (**2,** 1938; **3,** 1947)

Laurens, Henry, Ph.D. Box 157, Flatrock, N. C. (**1R,** 1913)

Lauson, Henry D., Ph.D., M.D. Albert Einstein College of Medicine, Dept. of Physiology, New York 61, N. Y. *Prof. and Chairman of Dept.* (**1,** 1946)

Lavik, Paul S., Ph.D. Western Reserve Univ., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry; Asst. Prof. of Radiology.* (**2,** 1952)

Lavine, T. F., Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia 11, Pa. *Sr. Member.* (**2,** 1938)

Law, Lloyd William, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head, Leukemia Studies Sec.* (**4,** 1952)

Lawrence, H. Sherwood, M.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (**6,** 1951)

Lawrence, John H., M.D. Univ. of California, Donner Lab., Berkeley 4. *Dir.; Prof. of Med. Physics; Physician-in-Chief, Donner Pavilion.* (**1,** 1952)

Lawrence, Merle, Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Physiological Acoustics, Dept. of Otolaryngology; Research Assoc., Inst. of Industrial Health.* (**1,** 1956)

Lawrence, W. Sherwood, M.D. 405 Sycamore St., Gridley, Calif. *Physician and Surgeon.* (**3,** 1944)

Lawson, Hampden C., M.D., Ph.D. Univ. of Louisville, Louisville, Ky. *Prof. of Physiology.* (**1,** 1933)

Lawton, Alfred H., M.D., Ph.D. 16438 Redington Dr., St. Petersburg, Fla. *Dir., Research Lab. and Ward Physician, VA Admin. Ctr., Bay Pines.* (**1,** 1949; **3,** 1948)

Lawton, Richard W., M.D. Aviation Med. Acceleration Lab., Naval Air Development Ctr., Johnsville, Pa. *Head, Physiology Div.; Assoc. Prof. of Physiology, Univ. of Pennsylvania School of Medicine.* (**1,** 1951).

Leake, Chauncey D., Ph.D. Ohio State Univ., Hamilton Hall, Columbus 10. (**1,** 1923; **3,** 1924)

Leathem, James H., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**1,** 1945)

LeBlanc, Jacques Arthur, Ph.D. Medical Directorate, Applied Physiology Br., Army Chemical Center, Md. *Deputy Chief.* (**1,** 1957)

Leder, Irwin G., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Biochemist.* (**2,** 1957)

Lederer, Ludwig George, Ph.D., M.D. Natl. Airport, Room 70, Washington, D. C. *Med. Dir., Capital Airlines; Asst. Clin. Prof. of Medicine, George Washington Univ.* (**1,** 1940)

Lee, Cheng-Chun, Ph.D. Lilly Research Labs., Indianapolis 6, Ind. *Pharmacologist.* (**1,** 1956; **3,** 1957)

Lee, Douglas H. K., M.D. Dept. of Defense, OR and D, Office of QM Gen., Washington 25, D. C. *Chief, Research Br.* (**1,** 1949)

Lee, Henry M., Ph.D. Eli Lilly and Co., 740 South Alabama, Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1952)

Lee, Kwang Soo, Ph.D., M.D. State Univ. of New York College of Medicine, Dept. of Pharmacology, Brooklyn 3. *Assoc. Prof.* (**3,** 1953)

Lee, Milton O., Ph.D. 9650 Wisconsin Ave., Washington 14, D. C. *Managing Editor, American Physiological Society; Federation Secretary.* (**1,** 1927; **5,** 1933)

Lee, Norman D., Ph.D. VA Med. Teaching Group Hosp., Radioisotope Service, Memphis, Tenn. *Asst. Chief; Asst. Prof. of Chemistry, Univ. of Tennessee Med. School.* (**2,** 1955)

Lee, Richard E., Ph.D., M.D. New York Hospital, Dept. of Medicine, New York City 21. *Asst. Prof. of Medicine, Cornell Univ. College of Medicine.* (**1,** 1950)

Leese, Chester E., Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. of Physiology.* (**1,** 1934)

LeFevre, Paul G., Ph.D. Brookhaven Natl. Lab., Upton, N. Y. *Scientist, Med. Dept.* (**1,** 1950)

Lehman, Arnold J., Ph.D., M.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Dir., Div. of Pharmacology.* (**3,** 1937)

Lehman, Robert A., Ph.D. 235 E. 22nd St., New York City 10. *Dir. of Research, Campbell Pharmaceutical Co.* (**3,** 1942)

Lehninger, Albert L., Ph.D. Johns Hopkins Univ., School of Medicine, Baltimore 5, Md. *De Lamar Prof. of Physiological Chemistry; Dir. of Dept.* (**2,** 1946; **5,** 1954)

Lehr, David, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. at 105th St., New York City 29. *Assoc. Prof. in Medicine; Prof. and Dir. of Dept. of Physiology and Pharmacology.* (**3,** 1947)

Leichsenring, Jane M., Ph.D. Univ. of Minnesota, School of Home Economics, St. Paul. *Prof. of Nutrition.* (**5,** 1948)

Leighton, Joseph, M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. (**4,** 1954)

Lein, Allen, Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, Chicago 11, Ill. *Assoc. Prof.* (**1,** 1946)

Leloir, Luis F., M.D. Instituto de Investigaciones Bioquimicas, Julian Alvarez 1719, Buenos Aires, Argentina. *Director.* (**2,** 1957)

Lennette, Edwin H., Ph.D., M.D. California State Dept. of Public Health, 2151 Berkeley Way, Berkeley 4. *Chief, Viral and Rickettsial Disease Lab.* (**4,** 1941; **6,** 1947)

Leonard, Clifford Shattuck, Ph.D. 286 Whitfield St., Guilford, Conn. *Technical Assoc., Chemical-Biological Coordination Center, Natl. Research Council.* (**3,** 1927)

Leonards, Jack Ralph, Ph.D., M.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Leone, Charles A., Ph.D. Univ. of Kansas, Dept. of Zoology, Lawrence. (**6,** 1954).

Le Page, G. A., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (**2,** 1949)

Lepeschkin, Eugene, M.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof. of Exptl. Medicine.* (**1,** 1955)

Lepkovsky, Samuel, Ph.D. Univ. of California, Poultry Dept., Berkeley 4. *Prof. of Poultry Husbandry.* (**2,** 1933; **5,** 1933)

Lepow, Irwin H., Ph.D. Western Reserve Univ., Dept. of Pathology, 2085 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry.* (**6,** 1954)

Lerner, Aaron B., M.D., Ph.D. Yale Univ. School of Medicine, Dept. of Medicine, New Haven 11, Conn. *Assoc. Prof.; Head, Section of Dermatology.* (**2,** 1952)

Lerner, Edwin M., II, M.D. Lab. of Pathology and Histochemistry, NIH, Bethesda 14, Md. *Pathologist.* (**4,** 1956)

Leskowitz, Sidney, Ph.D. Harvard Medical School, Boston 15, Mass. *Research Assoc. in Bacteriology and Immunology; Assoc. Immunologist, Mass. General Hosp., Vincent Research Lab.* (**6,** 1956)

L'Esperance, Elise L., M.D. 535 Pelham Manor Rd., Pelham Manor, N. Y. (**6,** 1920)

Lessler, Milton A., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Assoc. Prof. of Physiology.* (**1,** 1952)

Lettvin, Jerome Y., M.D. Massachusetts Inst. of Technology, Cambridge 39. *Research Assoc.* (**1,** 1955)

Leuchtenberger, Cecilie, Ph.D. Western Reserve

Univ., Inst. of Pathology, Cleveland, Ohio. *Assoc. Prof. of Cytology and Biology.* (**4,** 1954)

Levenbook, L., Ph.D., Jefferson Med. College, Biochemistry Dept., Philadelphia 7, Pa. *Asst. Prof.* (**1,** 1955)

Leverton, Ruth M., Ph.D. USDA, Inst. of Home Economics, Agric. Research Service, Washington 25, D. C. *Asst. Dir., Human Nutrition Research Div.* (**5,** 1942)

Levey, Stanley, Ph.D. Univ. Hospitals of Cleveland, 2065 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry, Western Reserve Univ. College of Medicine in the Dept. of Surgery, Lakeside Hospital.* (**2,** 1951)

Levin, Louis, Ph.D. Natl. Science Fndn., 1520 H St., N. W., Washington 25, D. C. *Program Dir., Regulatory Biology; Deputy Asst. Dir., Biol. and Med. Sciences.* (**2,** 1939)

Levine, Harold, Ph.D. 941 E. Sylvan Ave., Milwaukee 11, Wis. *Harmel Products.* (**2,** 1933; **5,** 1933)

Levine, Lawrence, Sc.D. Brandeis Univ., Waltham, Mass. *Asst. Prof. of Biochemistry.* (**6,** 1956)

Levine, Philip, M.D. Ortho Research Foundation, Raritan, N J. *Dir. of Immunohematology.* (**6,** 1925)

Levine, Rachmiel, M.D. Michael Reese Hospital, Chicago, Ill. *Dir., Dept. of Metabolic and Endocrine Research; Chairman, Dept. of Medicine.* (**1,** 1942)

Levine, Ruth R., Ph.D. Tufts Univ. School of Medicine, Boston 11, Mass. *Asst. Prof. of Pharmacology.* (**3,** 1956)

Levine, Samuel Z., M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Pediatrics, Cornell Univ. Med. College; Pediatrician-in-Chief, New York Hospital.* (**5,** 1933)

Levine, Victor Emanuel, Ph.D., M.D. Creighton Univ. School of Medicine, Omaha, Nebr. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1936)

Levinson, Samuel A., Ph.D., M.D. Univ. of Illinois College of Medicine, 808 S. Wood St., Chicago. *Prof. of Pathology; Consultant, Research and Educational Hospital.* (**4,** 1938)

Levintow, Leon, M.D. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Surgeon, PHS.* (**2,** 1954)

Levison, Louis A., M.D. 421 Michigan St., Toledo, Ohio. *Physician to Toledo and St. Vincent Hospitals.* (**6,** 1916)

Levitt, Marvin F., M.D. The Mount Sinai Hospital, 5th Ave. and 100th St., New York City 29. *Research Assoc., Dept. of Medicine.* (**1,** 1953)

Levy, Barnet M., D.D.S. Univ. of Texas Dental Branch, Houston. *Prof. of Pathology.* (**4,** 1951)

Levy, Matthew Nathan, M.D. St. Vincent Charity Hosp., Cleveland 15, Ohio. *Dir., Research Dept.* (**1,** 1951)

Levy, Milton, Ph.D. New York Univ. College of Dentistry, 342 E. 26th St., New York City. *Prof. and Chairman, Dept. of Biochemistry.* (**2,** 1933)

Levy, Robert L., M.D. 730 Park Ave., New York City 21. *Prof. Emeritus of Clin. Medicine, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1915)

Lewis, Alvin Edward, M.D. Mt. Zion Hospital, 1600 Divisadero St., San Francisco 15, Calif. *Pathologist.* (**1,** 1953)

Lewis, Benjamin M., M.D. Wayne State Univ. College of Medicine, Detroit 7, Mich. *Asst. Prof. of Medicine.* (**1,** 1957)

Lewis, David Harold, M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Assoc. in Cardiology.* (**1,** 1957)

Lewis, George T., Ph.D. Univ. of Miami School of Medicine, Dept. of Biochemistry, Coral Gables 34. *Professor and Chairman of Dept.* (**2,** 1949)

Lewis, Gladys Kinsman, Ph.D. 444 Fairfax, Denver 20, Colo. *Asst. Prof., Preventive Medicine and Public Health, Univ. of Colo. School of Medicine.* (**5,** 1944)

Lewis, James C., Ph.D. USDA Western Utilization Research Branch, Albany 10, Calif. *Unit Leader.* (**2,** 1946)

Lewis, Jessica H., M.D. Univ. of Pittsburgh, Dept. of Medicine, Pittsburgh 13, Pa. *Research Assoc.* (**1,** 1949)

Lewis, John R., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Asst. Head of Sec. of Coordination.* (**3,** 1950)

Lewis, Julian Herman, M.D. 4750 Champlain Ave., Chicago, Ill. *Assoc. Prof. of Pathology, Univ. of Chicago; Member, Otho S. A. Sprague Memorial Inst.* (**4,** 1924)

Lewis, Lena A., Ph.D. Cleveland Clinic, Euclid Ave. and E. 93rd St., Cleveland 6, Ohio. *Research Staff Member, Cleveland Clinic Fndn.* (**1,** 1946)

Lewis, Robert C., Ph.D. Univ. of Colorado, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2R,** 1931; **5R,** 1933)

Lewis, Urban J., Ph.D. Merck and Co., Inc., Rahway, N. J. *Sr. Biochemist.* (**2,** 1956)

Lewis, Warren H., M.D. Wistar Inst. of Anatomy and Biology, Philadelphia, Pa. *Member.* (**1R,** 1919)

Ley, Herbert L., Jr., M.D. 8911 Ewing Dr., Bethesda 14, Md. *Lt.-Col., USA.* (**6,** 1949)

Li, Chen Pien, M.D. Natl. Insts. of Health, Div. of Biologics Standards, Bethesda 14, Md. *Bacteriologist.* (**6,** 1956)

Li, Choh Hao, Ph.D. Univ. of California, 4596 Life Sciences Bldg., Berkeley. *Prof. of Biochemistry and Exper. Endocrinology; Dir., Hormone Research Lab.* (**2,** 1944)

Li, Choh-luh, M.D., Ph.D. Natl. Inst. of Neu-

rological Diseases and Blindness, NIH, Bethesda 14, Md. *Assoc. Neurosurgeon.* (**1**, 1956)

Li, Tsung Han, M.D., D.Sc. (Med.) New England Med. Center, Boston 11, Mass. *Asst. Prof., Tufts Med. School.* (**3**, 1951)

Liao, Sung J., M.D. Waterbury Hosp., Waterbury, Conn. *Dir., Physical Medicine and Rehabilitation.* (**6**, 1954)

Libby, Raymond L., Ph.D. Univ. of California Med. Ctr., Los Angeles 24. *Prof. of Radiology.* (**6**, 1938)

Liberson, W. T., M.D. Rocky Hill VA Hosp., Rocky Hill, Conn. *Neurophysiologist.* (**1**, 1948)

Libet, Benjamin, Ph.D. Univ. of California Med. Center, 104 Med. School, San Francisco. *Assoc. Prof. of Physiology.* (**1**, 1942)

Lichstein, Herman C., Sc.D. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis 14. *Professor.* (**2**, 1952)

Licklider, J. C. R., Ph.D. Bolt, Beranek and Newman, Inc., Cambridge, Mass. *Dept. of Engineering Psychology.* (**1**, 1938)

Liddell, Howard S., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Psychobiology; Dir. of Behavior Farm Lab.* (**1**, 1925)

Lieberman, Arnold L., M.D., Ph.D. 41–42 Elbertson St., Elmhurst 73, N. Y. (**1**, 1934)

Lieberman, Irving. D.V.M., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Microbiology, Pittsburgh, Pa. *Asst. Prof.* (**2**, 1955)

Lieberman, Seymour, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Lief, Philip A., M.D. Dept. of Anesthesiology, Mt. Sinai Hosp., 1 E. 100th St., New York City 29. *Anesthesiologist.* (**3**, 1952)

Liener, Irvin E., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 8. *Assoc. Prof.* (**2**, 1953; **5**, 1955)

Lifson, Nathan, M.D., Ph.D. 2602 W. 54th St., Minneapolis, Minn. *Prof. of Physiology, Univ. of Minnesota Med. School.* (**1**, 1944)

Lightbody, Howard D., Ph.D. R. F. D. No. 3, Box 17-B, Mena, Ark. *U. S. Civil Service, Retired.* (**2**, 1936)

Ligon, Edgar William, Jr., Ph.D. USDA Agric. Research Service, Pesticide Regulation Sec., Washington 25, D. C. *In charge of Pharmacological and Rodenticide Unit.* (**3**, 1948)

Liljestrand, Göran, M.D. Ph.D. p.c. Caroline Inst., Stockholm, Sweden. *Emeritus Prof. of Pharmacology; Sec. Nobel Committee for Physiology and Medicine.* (**1H**, 1950)

Lillie, R. D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Pathology and Histochemistry; Med. Dir., PHS.* (**4**, 1941)

Lillie, Robert J., Ph.D. USDA Animal and Poultry Husbandry Research Br., Beltsville, Md. *Poultry Husbandman.* (**5**, 1956)

Lilly, John C., M.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Chief, Sec. on Cortical Integration, Lab. of Neurophysiology; Assoc. Prof. of Med. Physics and Exptl. Neurology, Univ. of Pennsylvania.* (**1**, 1950)

Lim, Robert K. S., M.B., Ph.D., D.Sc. Miles-Ames Research Lab., Elkhart, Ind. *Head of Physiology and Pharmacology Dept.* (**1**, 1923; **3**, 1952)

Lin, Tsung-min, Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis, Ind. *Pharmacologist.* (**1**, 1956)

Lindberg, Robert B., Ph.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Center, Dept. of Bacteriology, Washington 12, D. C. *Chief.* (**6**, 1956)

Lindeman, V. F., Ph.D. Syracuse Univ., 16 Lyman Hall, Syracuse, N. Y. *Prof. of Zoology.* (**1**, 1949)

Lindenbaum, Arthur, Ph.D. Argonne Natl. Lab., Div. of Biological and Med. Research, Lemont, Ill. *Assoc. Biochemist.* (**2**, 1956)

Lindsay, Stuart, M.D. Univ. of California School of Medicine, H. C. Moffitt Hosp., San Francisco 22. *Prof. and Pathologist.* (**4**, 1949)

Lindsley, Donald B., Ph.D. Univ. of California at Los Angeles, Dept. of Psychology, Los Angeles 24. *Prof. of Psychology and Physiology, UCLA Med. School.* (**1**, 1937).

Linegar, Charles R., Ph.D. E. R. Squibb and Sons, Div. of Olin-Mathieson Chemical Corp., New Brunswick, N. J. *Assoc. Dir., Pharmacology Div.* (**3**, 1938)

Lineweaver, Hans, Ph.D. USDA Western Utilization Research and Development Div., Albany 10, Calif. *Head of Poultry Products Sec.* (**2**, 1941)

Ling, Gilbert N., Ph.D. Eastern Pennsylvania Psychiatric Inst., Henry Ave. at Abbottsford Rd., Philadelphia 29. *Senior Research Scientist.* (**1**, 1951)

Link, Karl Paul, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2**, 1931)

Linker, Alfred, Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Research Assoc.* (**2**, 1956)

Lintz, William, M.D. 36 Plaza St., Brooklyn, N. Y. *Late Prof. of Immunology and Bacteriology and Clin. Prof. of Medicine, Long Island College of Medicine.* (**6R**, 1920)

Lipkin, Martin, M.D. New York Hosp.-Cornell Med. Ctr., New York City 21. *Research Fellow, Dept. of Medicine.* (**1**, 1957)

Lipmann, Fritz, M.D., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Member and Professor.* (**2**, 1941)

Lippincott, Stuart W., M.D. Brookhaven Natl.

Lab., Upton, L. I., N. Y. *Sr. Scientist and Asst. to the Dir., Med. Dept.* (**4,** 1947)

Lippman, Richard W., M.D. California Inst. of Technology, Pasadena. *Med. Research Consultant, Div. of Chemistry and Chem. Engineering.* (**1,** 1950)

Lipton, Morris A., Ph.D., M.D. VA Research Hosp., 333 E. Huron St., Chicago 11, Ill. *Chief, Investigative Medicine Service; Asst. Prof. of Medicine, Northwestern Univ. Med. School.* (**2,** 1946)

Lipton, Murray M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville 2, Ky. *Asst. Prof. of Child Health Research.* (**6,** 1954)

Lisco, Hermann, M.D. Argonne Natl. Lab., Lemont, Ill., and Dept. of Pathology, Univ. of Chicago. (**4,** 1947).

Litchfield, John T., Jr., M.D. American Cyanamid Co., Research Div., Pearl River, N. Y. *Dir., Exptl. Therapeutics Sec.* (**3,** 1940)

Little, James Maxwell, Ph.D. Bowman Gray School of Medicine of Wake Forest College, Winston-Salem 7, N. C. *Prof. of Pharmacology; Assoc. Prof. of Physiology.* (**1,** 1942; **3,** 1947)

Little, Robert C., M.D. Scott and White Clinic, Temple, Texas. *Head, Cardio-pulmonary Lab.* (**1,** 1950)

Litwack, Gerald, Ph.D. Rutgers, State Univ. of New Jersey, New Brunswick. *Assoc. Prof. of Biochemistry.* (**2,** 1957)

Liu, Ch'ien, M.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Assoc. in Bacteriology and Immunology.* (**6,** 1953)

Liu, Oscar C., M.D., D.M.Sc. Merck Sharp and Dohme Research Labs., Merck & Co., Inc., West Point, Pa. *Research Assoc., Virus Research Dept.* (**6,** 1957)

Live, Israel, V.M.D., Ph.D. Univ. of Pennsylvania School of Vet. Medicine, Philadelphia 4, Pa. *Prof. of Microbiology.* (**6,** 1955)

Livingston, Alfred E., Ph.D. St. John's Univ., College of Pharmacy, Brooklyn 1, N. Y. *Prof. and Head of Dept. of Pharmacology.* (**1R,** 1917; **3R,** 1920)

Livingston, Robert B., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Dir. of Basic Research, NIMH-NINDB.* (**1,** 1949)

Lloyd, Charles W., M.D. State Univ. of New York Upstate Med. Ctr., Syracuse 10. *Assoc. Prof. of Obstetrics; Assoc. Prof. of Medicine (Endocrinology).* (**1,** 1955)

Lloyd, David P. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1939)

Locke, Arthur P., Ph.D. 1730 Morrill St., Sarasota, Fla. (**6R,** 1926)

Lodholz, Edward, M.D. Univ. of Pennsylvania, Med. Labs., Philadelphia. *Prof. Emeritus of Physiology, Grad. School of Medicine.* (**1R,** 1913)

Loeb, Leo, M.D. 40 Crestwood Dr., St. Louis 5, Mo. *Prof. Emeritus of Pathology, Washington Univ. Med. School.* (**1R,** 1907; **4,** 1913)

Loebel, Robert O., M.D. 205 East 78th St., New York City. (**1R,** 1928)

Loefer, John B., Ph.D. Office of Naval Research, 1030 E. Green St., Pasadena 1, Calif. *Coordinator for Biological Sciences.* (**1,** 1949)

Loew, Earl R., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. and Head of Dept. of Physiology.* (**1,** 1940; **3,** 1946)

Loewe, Leo, M.D. 177 New York Ave., Brooklyn 16, N. Y. (**3,** 1951)

Loewe, S., M.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Research Prof.* (**3,** 1936)

Loewi, Otto, M.D. 155 E. 93rd St., New York City 28. *Research Prof. of Pharmacology, New York Univ. College of Medicine.* (**3H,** 1941)

Loewus, Frank A., Ph.D. Western Regional Research Lab., U. S. Dept. of Agriculture, Albany 10, Calif. (**2,** 1956)

Loftfield, Robert B., Ph.D. Massachusetts Gen. Hosp., Boston 14. *Assoc. Biochemist, Harvard Univ.* (**2,** 1957)

Logan, Milan A., Ph.D. Univ. of Cincinnati College of Medicine, Eden and Bethesda, Cincinnati 19, Ohio. *Prof. of Biological Chemistry and Head of Dept.* (**2,** 1936)

Lo Grippo, Gerald A., M.D. Henry Ford Hospital, Div. of Microbiology, 2799 W. Grand Blvd., Detroit 2, Mich. *Sr. Assoc. in Charge.* (**4,** 1956; **6,** 1953)

Lombard, Louise S., Ph.D., D.V.M. Argonne Natl. Lab., Biological and Med. Div., Lemont, Ill. *Assoc. Pathologist.* (**4,** 1956)

Lombardo, Michael E., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Research Assoc. in Biochemistry.* (**2,** 1957)

Long, C. N. H., D.Sc., M.D. Yale Univ. Dept. of Physiology, 333 Cedar St., New Haven 11, Conn. *Sterling Prof. of Physiology.* (**1,** 1935; **2,** 1927)

Long, Esmond R., M.D., Ph.D., Sc. D. Pedlar Mills, Va. *Prof. Emeritus of Pathology, Henry Phipps Inst., Univ. of Pennsylvania.* (**4R,** 1930)

Long, John P., Ph.D. State Univ. of Iowa College of Medicine, Dept. of Pharmacology, Iowa City. *Asst. Prof.* (**3,** 1956)

Longenecker, Herbert Eugene, Ph.D. Univ. of Illinois, Chicago 12, Ill. *Vice-Pres. in Charge of Chicago Professional Colleges.* (**2,** 1940; **5,** 1945)

Longwell, Bernard B., Ph.D. The Lovelace Fndn., 4800 Gibson Blvd., S. E., Albuquerque, N. M. *Head, Dept. of Biochemistry.* (**2,** 1946)

Loefbourrow, G. N., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Asst. Prof.* (**1,** 1950)

Loomis, Ted A., Ph.D., M.D. Univ. of Washington, School of Medicine, Dept. of Pharmacology, Seattle 5. (**3,** 1948)

Loomis, William F., M.D. Calhoun Drive, Greenwich, Conn. *Dir., Loomis Lab.; Prof. of Biochemistry, Brandeis Univ.* (**2,** 1952)

Looney, Joseph M., M.D. 17 Court St., Boston, Mass. *Chief of Labs., VA Outpatient Clinic; Research Prof. of Biochemistry, Boston Univ. School of Medicine.* (**2,** 1922)

Loosli, Clayton Garr, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Preventive Medicine* (**4,** 1940; **6,** 1956)

Loosli, J. K., Ph.D. Cornell Univ., Animal Nutrition Lab., Ithaca, N. Y. *Prof. of Animal Nutrition and Animal Nutritionist in Exper. Station.* (**5,** 1944)

Lorand, Laszlo, Ph.D. Northwestern Univ., Dept of Chemistry, Evanston, Ill. *Asst. Prof.* (**1,** 1955; **2,** 1957)

Lorber, Stanley H., M.D. Temple Univ. School of Medicine, 3701 N. Broad St., Philadelphia 40, Pa. *Asst. Prof. of Medicine; Research Assoc., Fels Research Inst.* (**1,** 1951)

Lorber, Victor, M.D. Univ. of Minnesota, School of Medicine, Dept. of Physiology, Minneapolis 14. *Prof.; Career Investigator, Am. Heart Assn.* (**1,** 1944)

Lorente de Nó, Rafael, M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**1,** 1937)

Loring, H. S., Ph.D. Stanford Univ., Dept. of Chemistry, Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1938)

Loring, William E., M.D. New York Univ.-Bellevue Med. Ctr., New York City 16. *Assoc. Prof., Dept. of Pathology.* (**4,** 1957)

Lotspeich, William D., M.D. Univ. of Cincinnati College of Medicine, Dept. of Physiology, Eden and Bethesda Aves., Cincinnati 19, Ohio. *Professor and Chairman.* (**1,** 1948)

Louckes, Hortense S., Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Asst. Prof.* (**1,** 1957)

Louis, Lawrence H., D.Sc. Univ. Hospital, Dept. of Internal Medicine, Ann Arbor, Mich. *Assoc. Prof. of Biological Chemistry, Univ. of Michigan.* (**2,** 1949)

Love, Warner E., Ph.D. Johns Hopkins Univ., Dept. of Biophysics, Baltimore 18, Md. *Asst. Prof.* (**1,** 1956)

Loveless, Mary H., M.D. New York Hospital, 525 E. 68th St., New York City. *Assoc. Prof. of Clin. Medicine, Cornell Univ. Med. School; Physician to Out-Patients, New York Hospital.* (**6,** 1941)

Lowe, Charles Upton, M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Prof. of Pediatrics; Dir. of Research, Children's Hosp. of Buffalo.* (**4,** 1954)

Lowell, Francis C., M.D. 65 East Newton St., Boston, Mass. *Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**6,** 1942)

Lowenbach, Hans, M.D. Duke Univ. Med. School, Dept. of Psychiatry, Durham, N. C. *Professor.* (**1,** 1946)

Lowry, Oliver H., M.D., Ph.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Prof. and Head of Dept. of Pharmacology.* (**2,** 1942; **3,** 1950)

Lu, Frank C., M.D. Dept. of Natl. Health and Welfare, Food and Drug Directorate, Tunney's Pasture, Ottawa, Ont., Canada. *Pharmacologist.* (**3,** 1951)

Lu, Go, M.D., Ph.D. Ethicon, Inc., Dept. of Pharmacology, Somerville, N. J. *In Charge, Pharmacodynamics Sec.* (**3,** 1949)

Lubin, Martin, M.D., Ph.D. Harvard Med. School, Dept. of Pharmacology, Boston 15, Mass. *Asst. Prof.* (**3,** 1957)

Lubinski, Herbert, M.D. Jewish General Hospital, 3755 St. Catherine Rd., Montreal, Quebec, Canada. *Bacteriologist and Serologist.* (**6,** 1941)

Lucas, Colin C., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto, Ontario, Canada. *Professor.* (**2,** 1946)

Lucas, Fred V., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, New York City 32. *Assoc. Prof.* (**4,** 1955)

Lucas, George H. W., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Pharmacology.* (**2,** 1925; **3,** 1928)

Luck, James Murray, Ph.D. Annual Reviews, Inc., 231 Grant Ave., Palo Alto, Calif. (**2,** 1925)

Luckey, Thomas D., Ph.D. Univ. of Missouri School of Medicine, Columbia. *Chairman, Dept. of Biochemistry.* (**5,** 1953)

Ludewig, Stephan, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Assoc. Prof. of Biochemistry.* (**2,** 1941)

Luduena, Froilan P., Ph.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3,** 1941)

Luecke, Richard W., Ph.D. Michigan State Univ., Dept. of Agricultural Chemistry, East Lansing. *Prof. (Research).* (**5,** 1950)

Luft, Ulrich C., M.D. Lovelace Fndn. and Clinic, Albuquerque, N. M. *Head, Dept. of Physiology.* (**1,** 1950)

Luisada, Aldo A., M.D. Chicago Med. School, Chicago 8, Ill. *Assoc. Prof. of Medicine; Dir., Div. of Cardiology.* (**1,** 1956)

Lukens, Francis D. W., M.D. Univ. of Pennsyl-

vania, 811 Maloney Clinic, 36th and Spruce Sts., Philadelphia. *Prof. of Medicine.* (**1**, 1938)

Lumry, Rufus, Ph.D. Univ. of Minnesota, School of Chemistry, Minneapolis 14. *Prof., Physical Chemistry.* (**2**, 1956)

Lundberg, Walter O., Ph.D. Hormel Inst., Austin, Minn. *Director; Prof. of Agricultural Biochemistry, Univ. of Minnesota.* (**2**, 1949)

Lundgren, Harold P., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 10, Calif. *Head, Protein Sec.* (**2**, 1942)

Lundy, John Silas, M.D. Mayo Clinic, Rochester, Minn. *Sr. Consultant.* (**3**, 1935)

Lurie, Max B., M.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia, Pa. *Prof. of Exper. Pathology.* (**4**, 1934; **6**, 1930)

Luse, Sarah A., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Asst. Prof. of Pathology.* (**4**, 1956)

Lushbaugh, Clarence C., M.D., Ph.D. Los Alamos Scientific Lab., P. O. Box 1663, Los Alamos, N. Mex. *Staff Member; Pathologist, Los Alamos Hospital.* (**4**, 1950)

Lutz, Brenton R., Ph.D. Boston Univ., 675 Commonwealth Ave., Boston, Mass. *Prof. Emeritus of Biology.* (**1R**, 1925)

Luyet, Basile J., Sc.D. (Biol. and Physics). 3837 Monona Dr., Madison 4, Wis. (**1**, 1936)

Lyman, Carl M., Ph.D. A and M College of Texas, Texas Agricultural Exper. Station, College Station. *Prof. and Head of Dept. of Biochemistry and Nutrition.* (**2**, 1940; **5**, 1952)

Lyman, Charles Peirson, Ph.D. Harvard Univ., Museum of Comparative Zoology, Cambridge. Mass. *Research Assoc.; Research Assoc., Dept. of Anatomy, Harvard Med. School* (**1**, 1951)

Lyman, John F., Ph.D. 8200 Red Bud Lane, Indianapolis 13, Ind. *Emeritus Prof. of Agricultural Biochemistry, Ohio State Univ.* (**2R**, 1920; **5R**, 1933)

Maas, Werner K., Ph.D. New York Univ. College of Medicine, Dept. of Microbiology, New York City 16. *Assoc. Prof.* (**2**, 1955)

Maaske, Clarence A., Ph.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. and Head, Dept. of Physiology.* (**1**, 1945)

Macallum, A. Bruce, M.D., Ph.D. R. R. 3, Lunenburg, Nova Scotia, Canada. (**2R**, 1914)

MacCanon, Donald M., Ph.D. State Univ. of South Dakota School of Medicine, Vermillion. *Asst. Prof. of Physiology and Pharmacology.* (**1**, 1957)

MacCardle, Ross C., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4**, 1948)

Macchi, I. Alden, Ph.D. Boston Univ., Boston 15, Mass. *Asst. Prof. of Biology.* (**1**, 1957)

MacCorquodale, D. W., Ph.D. Abbott Labs., North Chicago, Ill. *Head of Biochemical Research.* (**2**, 1934)

MacDonald, Donald Laurie, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Chemistry, NIH, Bethesda 14, Md. *Visiting Scientist.* (**2**, 1956)

MacDonald, Norman S., Ph.D. Univ. of California Med. School, Los Angeles 24. *Assoc. Prof. of Biophysics (in residence).* (**2**, 1955)

MacFadyen, Douglas A., M.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Chairman of Dept. of Biochemistry.* (**2**, 1942)

Macht, David Israel, M.D. 6110 Biltmore Ave., Baltimore 15, Md. *Consultant Pharmacologist; Research Pharmacologist, Sinai Hosp. Labs.* (**1R**, 1916; **3**, 1915)

Macht, Martin B., Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Asst. Clin. Prof. of Medicine.* (**1**, 1948)

MacIntosh, F. C., Ph.D. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor and Chairman of Dept.* (**1**, 1950; **3**, 1950)

Mack, Walter N., Ph.D. Michigan State Univ., East Lansing. *Prof. of Microbiology and Public Health.* (**6**, 1957)

MacKay, Eaton M., M.D. 110 N. China Lake Blvd., Ridgecrest, Calif. (**1**, 1930)

MacKay, Ian F. S., Ph.D. Univ. College of the West Indies, Jamaica, British West Indies. *Prof. of Physiology.* (**1**, 1949)

Mackenzie, Cosmo G., Sc.D. Univ. of Colorado School of Medicine, Dept. of Biochemistry, 4200 E. 9th Ave., Denver 20. *Prof. and Head of Dept.* (**1**, 1946; **2**, 1946; **5**, 1942)

Mackenzie, Julia B., Sc.D. Univ. of Colorado Med. School, 4200 E. 9th Ave., Denver. *Assoc. Prof. of Biochemistry.* (**2**, 1952)

Mackler, Bruce, M.D. Univ. of Washington, Dept. of Pediatrics, Seattle 5. *Assoc. Prof.; Established Investigator of Am. Heart Assn.* (**2**, 1955)

MacLeod, Colin M., M.D. Hosp. of the Univ. of Pennsylvania, John Herr Musser Dept. of Research Medicine, Philadelphia 4. *Prof. of Research Medicine.* (**6**, 1937)

MacLeod, Florence L., Ph.D. Univ. of Tennessee, Knoxville. *Prof. of Nutrition.* (**2**, 1927; **5**, 1933)

MacLeod, Grace, Ph.D. 860–20th St., Apt. 426S, Knoxville 16, Tenn. *Prof. Emeritus of Nutrition, Teachers College, Columbia Univ.* (**2R**, 1924; **5R**, 1933)

MacLeod, John, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Anatomy.* (**1**, 1942)

MacLeod, Robert A., Ph.D. Fisheries Research Board of Canada, Technological Station, 898 Richards St., Vancouver 2, B. C., Canada. *Sr. Biochemist.* (**2**, 1953)

Macmillan, William H., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Asst. Prof. of Pharmacology.* (**3**, 1957)

MacVicar, Robert, Ph.D. Oklahoma State Univ., Stillwater. *Prof. of Biological Chemistry and Dean of the Grad. School; Vice-Pres. for Academic Affairs.* (**2,** 1949; **5,** 1954)

Madden, Sidney C., M.D. Univ. of California School of Medicine, Dept. of Pathology, Los Angeles 24. *Prof. and Chairman of Dept.* (**4,** 1939)

Maddock, Stephen, M.D. Boston City Hospital, Boston, Mass. *Dir. of Surgical Research Lab.* (**4,** 1931)

Maddock, William O., M.D., Ph.D. Wayne State Univ. College of Medicine, Dept. of Medicine, Detroit 7, Mich. *Assoc. Prof. of Medicine.* (**1,** 1951)

Madsen, Louis L., Ph.D. State College of Washington, Inst. of Agric. Sciences, Pullman. *Director.* (**5,** 1940)

Maengwyn-Davies, Gertrude D., Ph.D. 2909 34th St., N.W., Washington 8, D. C. *Assoc. Prof. of Pharmacology, Georgetown Univ. School of Medicine.* (**2,** 1957)

Magasanik, Boris, Ph.D. Harvard Med. School, Dept. of Bacteriology, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Bacteriology and Immunology.* (**2,** 1952)

Magath, Thomas B., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head of Sec. of Clin. Pathology; Prof. of Clin. Pathology and Parasitology, Univ. of Minnesota, Mayo Foundation.* (**1,** 1928)

Magee, Donald F., Ph.D. Univ. of Washington, Dept. of Pharmacology, Seattle 5. *Assoc. Prof.* (**1,** 1954; **3,** 1957)

Magill, Thomas P., M.D. State Univ. of New York, College of Medicine, Brooklyn. *Prof. of Microbiology and Immunology.* (**6,** 1937)

Magladery, J. W., M.D., Ph.D., M.R.C.P. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Neurology, Johns Hopkins University.* (**1,** 1950)

Magnuson, Harold J., M.D., M.P.H. U. S. Public Health Service, Washington 25, D. C. *Chief, Occupational Health Program.* (**4,** 1950)

Magoun, Horace W., Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. of Anatomy.* (**1,** 1937)

Mahler, Henry R., Ph.D. Indiana Univ., Dept. of Chemistry, Bloomington. *Professor.* (**2,** 1953)

Main, Rolland J., Ph.D. Eaton Labs., Eaton Ave., Norwich, N. Y. *Dir., Med. Publications and Consultant in Physiology.* (**1,** 1936)

Maire, Frederick Wirth, M.D. Mental Health Research Inst., Fort Steilacoom, Wash. *Physician II in Clin. Neurophysiology.* (**1,** 1957)

Maison, George L., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *President.* (**1,** 1939; **3,** 1948)

Majno, Guido, M.D. Harvard Med. School, Boston 15, Mass. *Assoc. in Pathology.* (**4,** 1956)

Major, Randolph T., Ph.D. Univ. of Virginia, Charlottesville. *Prof. of Chemistry; Scientific Advisor, Merck and Co., Inc.* (**2,** 1942)

Makinodan, Takashi, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biologist.* (**6,** 1956)

Maley, Gladys Feldott, Ph.D. New York Univ. College of Medicine, New York City 16. *Research Assoc., Dept. of Biochemistry.* (**2,** 1957)

Maling, Harriet M., Ph.D. Natl. Heart Inst., Bethesda 14, Md. *Pharmacologist.* (**3,** 1953)

Malkiel, Saul, M.D., Ph.D. Harvard Med. School, Boston, Mass. *Res. Assoc. in Medicine; Assoc. in Medicine, Peter Bent Brigham Hosp.* (**6,** 1948)

Mallette, M. F., Ph.D. Pennsylvania State Univ., University Park. *Assoc. Prof. of Physical Biochemistry.* (**2,** 1954)

Mallory, G. Kenneth, M.D. Mallory Inst. of Pathology, Boston City Hospital, Boston, Mass. *Pathologist-in-Chief.* (**4,** 1940)

Mallov, Samuel, Ph.D. State Univ. of New York, Dept. of Pharmacology, Syracuse. *Asst. Prof.* (**3,** 1956)

Malmgren, Richard A., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. (**4,** 1955)

Maloney, James V., Jr., M.D. Univ. of California Med. School, Dept. of Surgery, Los Angeles. *Asst. Prof.* (**1,** 1951)

Maltaner, Frank, Ph.D. 388 New Scotland Ave., Albany, N. Y. (**6R,** 1920)

Maluf, Noble S. R., Ph.D., M.D. Veterans Administration Hospital, Dept. of Surgery, Holcombe Blvd., Houston, Tex. *Chief of Urology.* (**1,** 1942)

Man, Evelyn B., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. in Thyroid Lab., Dept. of Medicine.* (**2,** 1936)

Mandel, H. George, Ph.D. George Washington Univ. School of Medicine, Dept. of Pharmacology, 1335 H St., N. W., Washington 5, D. C. *Assoc. Prof. of Pharmacology.* (**2,** 1953; **3,** 1955)

Mandl, Ines, Ph.D. 166 W. 72nd St., New York City 23. *Asst. Prof. of Biochemistry, Columbia Univ. College of Physicians and Surgeons.* (**2,** 1952)

Manery, Jeanne Forest, Ph.D. Univ. of Toronto Med. School, Toronto, Ontario, Canada. *Asst. Prof. of Biochemistry.* (**1,** 1937)

Mangun, George H., Ph.D. Warner-Chilcott Research Labs., Morris Plains, N. J. *Dir. of Research.* (**2,** 1947)

Manire, George Philip, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Bacteriology, Chapel Hill. *Assoc. Prof.* (**6,** 1953)

Mann, Frank C., M.D. 605-11th St., S.W., Rochester, Minn. *Prof. Emeritus of Exper. Medicine, Mayo Foundation.* (**1R,** 1916; **4R,** 1924)

Mann, Frank D., Ph.D., M.D. Palo Alto Hosp.,

Research Fndn., Palo Alto, Calif. (**1**, 1950; **4**, 1950)

Mann, George V., Sc.D., M.D. 200 Oakland St., Wellesley Hills, Mass. (**5**, 1951)

Mann, Joseph Daniel, M.D. Butterworth Hosp., 300 Bostwick, N.E., Grand Rapids 3, Mich. *Dir. of Labs.* (**4**, 1953)

Mannering, Gilbert J., Ph.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison 6. *Asst. Prof.* (**3**, 1956)

Manning, G. W., M.D., Ph.D. Victoria Hospital, London, Ontario, Canada. *Asst. Prof. of Clin. Investigation, Dept. of Medicine; Lecturer, Dept. of Physiology, Univ. of Western Ontario.* (**1**, 1944)

Mansour, Tag E., Ph.D. Louisiana State Univ., Dept. of Pharmacology, New Orleans 12. *Asst. Prof.* (**3**, 1956)

Manthei, R. W., Ph.D. Jefferson Med. College, Philadelphia 7, Pa. *Asst. Prof. of Pharmacology.* (**3**, 1957)

Manville, Ira Albert, M.D., Ph.D. 811 N. W. 19th Ave., Portland 9, Ore. (**1**, 1933)

Manwaring, Wilfred H., M.D. 364 Kingsley Ave., Palo Alto, Calif. *Prof. Emeritus of Bacteriology and Exper. Pathology, Stanford Univ.* (**4**, prior to 1920; **6**, 1917)

Marbarger, John P., Ph.D. 394 S. Kenilworth Ave., Elmhurst, Ill. *Research Dir., Aeromed. and Physical Environment Lab.; Prof. of Physiology.* (**1**, 1949)

Marcus, Stanley, Ph.D. Univ. of Utah, Dept. of Bacteriology, Salt Lake City. *Assoc. Prof.* (**6**, 1948)

Maren, Thomas H., M.D. Univ. of Florida College of Medicine, Dept. of Pharmacology, Gainesville. *Prof. and Chairman of Dept.* (**3**, 1950)

Margolin, Solomon, Ph.D. Wallace Labs., Dept. of Pharmacology, New Brunswick, N. J. *Chief Pharmacologist.* (**3**, 1957)

Margolis, George, M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Pathology.* (**4**, 1957)

Marine, David, M.D. 18 Baltimore Ave., Rehoboth, Del. (**1R**, 1910; **4R**, 1913)

Marinetti, Guido V., Ph.D. Univ. of Rochester School of Medicine, Dept. of Biochemistry, Rochester 20, N. Y. *Asst. Prof.* (**2**, 1956)

Mark, Lester C., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Anesthesiology, New York City 32. *Asst. Prof. of Anesthesiology.* (**3**, 1950)

Markee, Joseph E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Anatomy.* (**1**, 1945)

Markowitz, J., M.D., Ph.D. Univ. of Toronto School of Medicine, Toronto, Ontario, Canada. *Prof. of Physiology.* (**1**, 1929)

Marks, Paul A., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Asst. Prof. of Medicine.* (**2**, 1957)

Marmont, George H., Ph.D. Box 788, Monterey, Calif. (**1**, 1941)

Marmorston, Jessie. 613 N. Canon Dr., Beverly Hills, Calif. (**6**, 1932)

Marrazzi, Amedeo S., M.D. VA Research Labs. in Neuropsychiatry, Pittsburgh 6, Pa. *Director; Research Director, VA Hosp.* (**1**, 1949; **3**, 1938)

Marsh, Gordon, Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Zoology.* (**1**, 1944)

Marsh, Julian B., M.D. Univ. of Pennsylvania School of Medicine and Grad. School of Medicine, Dept. of Biochemistry, Philadelphia 4. *Asst. Prof.* (**2**, 1955)

Marsh, M. Elizabeth, Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Pathology, San Francisco 22. *Asst. Research Pathologist.* (**1**, 1929; **5**, 1933)

Marshak, Alfred George, Ph.D. Marine Biological Lab., Woods Hole, Mass. (**1**, 1940)

Marshall, Eli Kennerly, Jr., Ph.D., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Prof. Emeritus of Pharmacology and Exptl. Therapeutics.* (**1R**, 1915; **2R**, 1913; **3**, 1915)

Marshall, Jean McElroy, Ph.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Physiology.* (**1**, 1956)

Marshall, Lawrence M., Ph.D. Howard Univ., School of Medicine, Dept. of Biochemistry, Washington, D. C. *Assoc. Prof.* (**2**, 1952)

Marshall, Louise Hanson, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Disease, Bethesda, Md. *Physiologist.* (**1**, 1946)

Marshall, Wade H., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Neurophysiologist.* (**1**, 1937)

Martin, A. Robert, Ph.D. Univ. of Utah College of Medicine, Dept. of Physiology, Salt Lake City. *Instructor.* (**1**, 1957)

Martin, Arthur W., Ph.D. Univ. of Washington, Johnson Hall, Seattle. *Executive Officer, Dept. of Zoology.* (**1**, 1944)

Martin, Donald S., M.D. Communicable Disease Center, 50–7th St., N.E., Atlanta 23, Ga. *Chief, Training Branch.* (**6**, 1943)

Martin, Foster N., Jr., Ph.D., M.D. 1546 Marlin St., Newberry, S. C. *Practice of Medicine.* (**3**, 1947)

Martin, Gustav J., Sc.D. National Drug Co., Research Labs., Haines & MacCallum Sts., Philadelphia, Pa. *Research Dir.* (**2**, 1951)

Martin, Samuel P., M.D. Univ. of Florida College of Medicine, Gainesville. *Prof. of Medicine.* (**6**, 1954)

Martin, Stevens J., Ph.D., M.D. St. Francis Hospital, Hartford, Conn. *Dir., Dept. of Anesthesiology.* (**1**, 1933)

Martinez, Carlos, M.D., Ph.D. Univ. of Minne-

sota, Dept. of Physiology, Minneapolis. *Assoc. Prof. in Cancer Biology.* (1, 1955)

Marx, Walter, Ph.D. Univ. of Southern California School of Medicine, Los Angeles 7. *Prof. of Biochemistry.* (2, 1949)

Mason, Earl James, M.D. U. S. Marine Hosp., San Francisco, Calif. (4, 1956)

Mason, Eleanor Dewey, Ph.D., D.Sc. Univ. of Bombay, Dept. of Chem. Technology, Bombay 19, India. *Research Assoc.* (1, 1946)

Mason, Harold L., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (2, 1941)

Mason, Herman C., Ph.D. 131 N. Harvey Ave., Oak Park, Ill. *Consulting Bacteriologist and Immunologist, State of Illinois, Dept. of Public Welfare.* (6, 1948)

Mason, Howard S., Ph.D. Univ. of Oregon Med. School, 3181 S. W. Sam Jackson Park Rd., Portland 1. *Assoc. Prof. of Biochemistry.* (2, 1949)

Mason, Karl Ernest, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. and Chairman, Dept. of Anatomy.* (5, 1941)

Mason, Morton F., Ph.D. Parkland Mem. Hosp., Harry Hines Blvd., Dallas 19, Tex. *Prof., Clin. Chemistry, Dept. Internal Medicine, Univ. of Texas Southwestern Med. School.* (2, 1938)

Mason, Richard P., M.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Ctr., Washington 12, D. C. (6, 1950)

Masoro, Edward J., Ph.D. Tufts Univ. School of Medicine, Dept. of Physiology, 136 Harrison Ave., Boston, Mass. *Assoc. Prof.* (1, 1954)

Masouredis, Serafeim P., M.D., Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh 13, Pa. *Asst. Prof. of Pathology; Asst. Dir., Central Blood Bank of Pittsburgh.* (1, 1957; 6, 1957)

Massey, Vincent, Ph.D. Univ. of Sheffield, Biochemistry Dept., Sheffield, England. *Lecturer.* (2, 1956)

Masson, Georges M. C., Ph.D. Cleveland Clinic Foundation, Research Div., Cleveland, Ohio. *Staff Member.* (1, 1944)

Mathews, Martin B., Ph.D. Univ. of Chicago, Dept. of Pediatrics, 920 E. 59th St., Chicago 37, Ill. *Research Assoc.* (2, 1954)

Mathies, James C., Ph.D. Swedish Hosp., Summit and Columbia, Seattle, Wash. (2, 1952)

Mathieson, Don R., M.D. Univ. of Minnesota, Mayo Clinic, Rochester. *Asst. Prof. and Consultant in Clin. Pathology.* (6, 1952)

Matrone, Gennard, Ph.D. North Carolina State College, Animal Nutrition Sec., Raleigh. *Research Prof. of Animal Industry.* (5, 1957)

Matson, G. Albin, Ph.D. Minneapolis War Memorial Blood Bank, Inc., 2304 Park Ave., Minneapolis 4, Minn. *Director.* (6, 1946)

Matterson, Lloyd D., Ph.D. Univ. of Connecticut, Dept. of Poultry Science, Storrs. *Professor.* (5, 1955)

Matthews, Samuel A., Ph.D. Williams College, Williamstown, Mass. *Prof. of Biology.* (1, 1948)

Mattis, Paul A., D.Sc. Smith, Kline & French Labs., Philadelphia 1, Pa. *Head of Pharmacology Section.* (3, 1946)

Mattox, Vernon Ross, Ph.D. Mayo Clinic, Dept. of Biochemistry, Rochester, Minn. *Assoc. Prof.* (2, 1954)

Mattson, Fred H., Ph.D. Procter and Gamble Co., Research Div., Cincinnati 2, Ohio. *Research Chemist.* (2, 1957; 5, 1953)

Maurer, Frank W., Ph.D. 301 Lake Ave., Newton Highlands 61, Mass. (1, 1941)

Maurer, Fred D., D.V.M., Ph.D. Armed Forces Inst. of Pathology, Walter Reed Army Med. Ctr., Washington 12, D. C. (6, 1950)

Maurer, Paul H., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Assoc. Prof. of Immunochemistry.* (6, 1953)

Mautz, Frederick R., M.D. 10515 Carnegie Ave., Cleveland 6, Ohio. (1, 1945)

Maver, Mary E., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Biochemist.* (2, 1947)

Mavor, James Watt, Ph.D. 8 Gracewood Park, Cambridge, Mass. (1R, 1930)

Maxfield, Mary E., Ph.D. Haskell Labs., E. I. DuPont de Nemours Co., Newark, Del. (1, 1947)

Maxfield, Myles, M.D., Ph.D. Brookhaven Natl. Lab., Upton, N. Y. *Assoc. Scientist, Med. Dept.* (1, 1955)

Maxwell, Morton H., M.D. Univ. of California Med. Ctr., Los Angeles. *Assoc. Clin. Prof. of Medicine.* (1, 1955)

Maxwell, Robert A., Ph.D. Ciba Pharmaceutical Products, Inc., Macrobiology Dept., Summit, N. J. *Assoc. Pharmacologist.* (3, 1957)

May, Charles D., M.D. Physicians' Council for Information on Child Health, 2 E. 63rd St., New York City 21. *Exec. Dir.* (5, 1952)

Mayer, Dennis T., Ph.D. Univ. of Missouri, Dept. of Agricultural Chemistry, 211 N. Schweitzer Hall, Columbia. *Professor.* (2, 1950)

Mayer, Jean, Sc.D., Ph.D. Harvard School of Public Health, Dept. of Nutrition, 1 Shattuck St., Boston 15, Mass. *Assoc. Prof.* (1, 1955; 5, 1951)

Mayer, Manfred M., Ph.D. Johns Hopkins Univ., School of Hygiene, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Microbiology.* (6, 1946)

Mayer, Steven E., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Fellow of Natl. Multiple Sclerosis Soc.* (3, 1957)

Mayerson, Hymen S., Ph.D. Tulane Univ. School of Medicine, University Station, New Orleans

18, La. *Prof. and Head of Dept. of Physiology.* (**1,** 1928)

Maynard, Elliott Allen, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology and Toxicology.* (**3.** 1950)

Maynard, L. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. Emeritus of Nutrition and Biochemistry.* (**2R,** 1930; **5,** 1933)

Maynert, Everett W., Ph.D., M.D. Johns Hopkins Med. School, Dept. of Pharmacology, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Pharmacology.* (**3,** 1952)

Mazur, Abraham, Ph.D. City College of New York, 139th St. and Convent Ave., New York City 31. *Assoc. Prof. in Dept. of Chemistry.* (**2,** 1944)

McCandless, Esther Leib, Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Asst. Prof.* (**1,** 1957)

McCann, Samuel McD., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiology, Philadelphia 4. *Asst. Prof.* (**1,** 1955)

McCann, William S., M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *The Charles A. Dewey Prof. of Medicine (Emeritus).* (**2,** 1923; **5,** 1933)

McCarrell, Jane D., Ph.D. Hood College, Dept. of Biology, Frederick, Md. *Prof. and Head of Dept.* (**1,** 1942)

McCarthy, Miles D., Ph.D. Pomona College, Dept. of Zoology, Claremont, Calif. *Prof.* (**1,** 1955)

McCarty, Maclyn, M.D. 66th St. and York Ave., New York City 21. *Member, Rockefeller Inst. for Med. Research.* (**6,** 1947)

McCawley, Elton Leeman, Ph.D. Univ. of Oregon, School of Medicine, Portland 1. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

McCay, Clive M., Ph.D. Cornell Univ., Animal Nutrition Lab., Dairy Bldg., Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1929; **5,** 1933)

McChesney, Evan William, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Member, Biological Div.* (**1,** 1944)

McClain, Mary Elizabeth, Ph.D. Univ. of California, Dept. of Bacteriology, Berkeley. *Assoc. Research Virologist, Naval Biological Lab.* (**6,** 1957)

McClellan, Walter S., M.D. Univ. of North Carolina Med. School, Chapel Hill. *Lecturer in Physiology.* (**1,** 1931)

McClendon, J. F., Ph.D. Route 1, Box 393, Trooper Rd., Norristown, Pa. *Biochemist, J. Gershon-Cohen Fndn.* (**1R,** 1910; **2R,** 1914; **5R,** 1935)

McClung, L. S., Ph.D. Indiana Univ., Dept. of Bacteriology, Bloomington. *Prof. and Chairman of Dept.* (**6,** 1948)

McColl, John D., Ph.D. Frank W. Horner, Ltd., Box 959, Montreal, Canada. *Pharmacologist.* (**3,** 1957)

McCollum, Elmer Verner, Ph.D. Johns Hopkins Univ., Baltimore 18, Md. *Prof. Emeritus of Biochemistry.* (**2R,** 1910; **5,** 1933)

McCollum, Ernestine Becker, M.A. Johns Hopkins Univ. School of Hygiene, Baltimore 5, Md. *Asst. Prof. of Biochemistry.* (**5,** 1938)

McConnell, Kenneth P., Ph.D. U. S. Veterans Administration Hospital, Louisville, Ky. *Principal Scientist, Radioisotope Service.* (**2,** 1952)

McCouch, Grayson Prevost, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Emeritus Prof. of Physiology.* (**1,** 1925)

McCouch, Margaret Sumwalt, Ph.D. R.D. 4, West Chester, Pa. (**1,** 1934)

McCoy, Richard H., Ph.D. Univ. of Pittsburgh, Dept. of Chemistry, Pittsburgh 13, Pa. *Assoc. Prof.* (**2,** 1950; **5,** 1948)

McCrea, Forrest D., Ph.D. 1023 Demerius St., Durham, N. C. (**3,** 1937)

McCrudden, Francis H., M.D. 19 Stoneleigh Rd., West Newton 65, Mass., (**2R,** 1906)

McCubbin, James W., M.D. Cleveland Clinic Fndn., 2020 E. 93rd St., Cleveland 6, Ohio. *Staff, Research Div.* (**1,** 1956)

McCulloch, Warren Sturgis, M.D. Massachusetts Inst. of Technology, Research Lab. of Electronics, Cambridge 39. *Staff Member.* (**1,** 1936)

McCutcheon, F. Harold, Ph.D. Univ. of Pennsylvania, School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiology; Head of Dept. of Physiology and Pharmacology.* (**1,** 1951)

McCutcheon, Morton, M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Emeritus Prof. of Pathology.* (**4,** 1925)

McDonald, Francis Guy, Ph.D. Mead Johnson and Co., Research Lab., 2404 W. Pennsylvania St., Evansville, Ind. *Biochemist.* (**2,** 1936; **5,** 1947)

McDonald, Hugh J., D.Sc. Loyola Univ., Stritch School of Medicine, 706 S. Wolcott Ave., Chicago 12, Ill. *Prof. and Chairman, Dept. Biochemistry.* (**2,** 1954)

McDonald, Roger K., M.D. 10112 Parkwood Terrace, Bethesda 14, Md. (**1,** 1949)

McElroy, William Swindler, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dean, Prof. of Biochemistry.* (**2,** 1919)

McElroy, L. W. Ph.D. Univ. of Alberta, Dept. of Animal Science, Edmonton, Canada. *Prof. of Animal Science.* (**5,** 1944)

McElroy, William D., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., 34th and Charles Sts., Baltimore 18, Md. *Dir. and Head, Dept. of Biology.* (**1,** 1945; **2,** 1951)

McFarland, Ross A., Ph.D. Harvard Univ. School of Public Health, 1 Shattuck St., Boston, Mass. *Assoc. Prof. of Industrial Hygiene.* (**1,** 1943)

McFarlane, William Douglas, Ph.D. Canadian Breweries, Ltd., Research Div., 307 Fleet St. E., Toronto, Ontario, Canada. *Dir. of Research.* (**2,** 1933)

McGanity, William J., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Obstetrics and Gynecology.* (**5,** 1957)

McGill, Henry C., Jr., M.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Assoc. Prof. of Pathology.* (**4,** 1955)

McGilvery, Robert W., Ph.D. Univ. of Virginia School of Medicine, Dept. of Biochemistry, Charlottesville. *Assoc. Prof.* (**2,** 1951)

McGinnis, James, Ph.D. State College of Washington, Dept. of Poultry Science, Pullman. *Prof. of Nutrition and Chairman of Dept.* (**5,** 1952)

McGinty, Daniel A., Ph.D. Parke, Davis and Co., Detroit, Mich. *Lab. Dir.* (**1,** 1925)

McGuigan, Hugh Alister, Ph.D., M.D. 2418 Park Pl., Evanston, Ill. *Prof. Emeritus of Pharmacology, Univ. of Illinois College of Medicine.* (**1R,** 1907; **2R,** 1906; **3R,** 1913)

McHargue, J. S., Ph.D. Univ. of Kentucky, Dept. of Chemistry, Kentucky Agricultural Exper. Station, 407 Chinoe Rd., Lexington. *Member Emeritus.* (**2R,** 1927)

McHenry, E. W., Ph.D. Univ. of Toronto, School of Hygiene, Toronto, Ontario, Canada. *Prof. of Public Health Nutrition.* (**2,** 1938; **5,** 1935)

McIntire, Floyd C., Ph.D. Abbott Labs., North Chicago, Ill. *Head, Cellular Physiology Sec.* (**2,** 1952)

McIntyre, A. R., Ph.D., M.D. Univ. of Nebraska College of Medicine, 42nd and Dewey Ave., Omaha 5. *Prof. and Chairman, Dept. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1938)

McKay, Donald George, M.D. Boston Lying-In Hosp., Boston 15, Mass. *Pathologist; Pathologist, Free Hosp. for Women, Brookline.* (**4,** 1956)

McKee, Albert P., M.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology* (**6,** 1948)

McKee, Clara M. 6813 Blenheim Rd., Baltimore 12, Md. (**6,** 1941)

McKee, Frank W., M.D. Dept. of Pathology, Univ. of California School of Medicine, Los Angeles 24. *Professor.* (**4,** 1947)

McKee, Ralph Wendell, Ph.D. Univ. of California, Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Professor.* (**2,** 1946)

McKennis, Herbert, Jr., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Pharmacology.* (**2,** 1948; **3,** 1957)

McKibbin, John M., Ph.D. State Univ. of New York Med. Center at Syracuse, Syracuse, N. Y. *Prof. of Biochemistry.* (**2,** 1948)

McKinney, Gordon R., Ph.D. West Virginia Univ. Med. Ctr., School of Medicine, Dept. of Pharmacology, Morgantown. *Assoc. Prof.* (**3,** 1954)

McLain, Paul L., M.D. Univ. of Pittsburgh Med. School, Pittsburgh 13, Pa. *Prof. of Physiology and Pharmacology; Acting Chairman of Dept.* (**1,** 1948; **3,** 1940)

McLaren, A. Douglas, Ph.D. Univ. of California College of Agriculture, 108 Hilgard Hall, Berkeley 4. *Prof. of Soil Chemistry.* (**2,** 1953)

McLaren, Barbara A., Ph.D. Univ. of Toronto, Dept. of Household Science, Toronto, Canada. *Prof. and Dir. of Faculty—Household Science.* (**5,** 1954)

McLean, Franklin C., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. Emeritus of Physiology.* (**1,** 1914 **2R,** 1916; **3R,** 1916)

McLean, I. William, Jr., M.D. Parke, Davis & Co., Virus Research Div., Detroit, Mich. *Asst. Dir., Microbiological Research.* (**6,** 1946)

McLean, Richard A., M.A. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia, Pa. *Sr. Pharmacologist.* (**3,** 1953)

McLimans, William F., Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Research Assoc. Prof.* (**6,** 1949)

McManus, J. F. A., M.D. Univ. of Alabama Med. Ctr., Birmingham. *Prof. and Chairman of Pathology.* (**4,** 1948)

McMaster, Philip D., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member and Professor.* (**4,** 1924; **6,** 1951)

McMeekin, Thomas L., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia, Pa. *Head of Protein Div.* (**2,** 1935)

McNamara, Bernard P., Ph.D. Directorate of Med. Research, Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Aerosol Br.* (**3,** 1947)

McNaught, James Bernard, M.D. Univ. of Colorado School of Medicine, Denver 20. *Prof. and Head of Dept. of Pathology.* (**4,** 1936)

McNeil, Crichton, M.D. Holy Cross Hospital, Salt Lake City, Utah. *Pathologist and Dir.* (**6,** 1950)

McNelly, W. C., Ph.D. Miami Univ., Oxford, Ohio. *Prof. of Physiology.* (**1,** 1955)

McPhail, Murchie K., Ph.D. Natl. Defense Board, Suffield Exper. Station, Ralston, Alberta, Canada. *Research Scientist.* (**3,** 1941)

McQuarrie, Irvine, Ph.D., M.D. Children's Hosp., of the East Bay, Oakland 9, Calif. *Dir., Pediatric Research; Prof. Emeritus of Pediatrics, Univ. of Minnesota.* (**1,** 1949; **4,** 1927; **5R,** 1933).

McShan, W. H., Ph.D. Univ. of Wisconsin, Zoology Dept., Madison 6. *Prof. of Zoochemistry.* (**2,** 1947)

Mead, James F., Ph.D. 1210 Las Lomas Pl., Pacific Palisades, Calif. *Chief, Biochemistry*

Div., Atomic Energy Project; Prof. of Physiological Chemistry., UCLA. (**2**, 1952)

Mead, Jere, M.D. Harvard School of Public Health, Physiology Dept., 55 Shattuck St., Boston 15, Mass. *Assoc. Prof.* (**1**, 1952)

Medes, Grace, Ph.D. Lankenau Hospital Research Inst., 7701 Burholme St., Philadelphia 11, Pa. *Sr. Member, Metabolic Chemistry.* (**2**, 1930)

Meek, Walter J., Ph.D. Sc.D. Univ. of Wisconsin, Madison. *Emeritus Prof. of Physiology; Emeritus Dean of Med. School.* (**1R**, 1908)

Mehl, John W., Ph.D. Univ. of Southern California, 3551 Univ. Ave., Los Angeles. *Prof. of Biochemistry and Nutrition.* (**2**, 1946)

Mehler, Alan H., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chemist.* (**2**, 1952)

Meier, Rolf, M.D. Bundestrasse 21, Basle, Switzerland. *Prof. of Pathological Physiology; Dir., Biological Research Labs., Ciba Ltd.* (**3**, 1949)

Meiklejohn, Gordon, M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Prof. and Head, Dept. of Medicine.* (**6**, 1948)

Meissner, William A., M.D. New England Deaconess Hosp., Boston 15, Mass. *Pathologist; Assoc. Clin. Prof. of Pathology, Harvard Med. School.* (**4**, 1957)

Meister, Alton, M.D. Tufts Univ. School of Medicine, Dept. of Biochemistry, Boston, Mass. *Professor and Chairman.* (**2**, 1950)

Meites, Joseph, Ph.D. Michigan State Univ., Dept. of Physiology and Pharmacology, East Lansing. *Professor.* (**1**, 1949; **5**, 1952)

Melampy, Robert M., Ph.D. Iowa State College, 13 Curtiss Hall, Ames. *Prof. of Physiology.* (**1**, 1952)

Melcher, Leo R., M.D., Ph.D. 2900 Broadway, Redwood City, Calif. (**6**, 1952)

Melchior, Jacklyn B., Ph.D. Loyola Univ. Med. School, 706 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof. of Pharmacology.* (**2**, 1953)

Mellon, Ralph R., M.D., D.P.H. 6579 Mission Ave., 29 Palms, Calif. (**6R**, 1918).

Mellors, Robert C., M.D., Ph.D. Memorial Ctr. for Cancer and Allied Diseases, 444 E. 68th St., New York City 21. *Assoc., Sloan-Kettering Inst.; Assoc. Pathologist, Memorial Hosp.* (**2**, 1951; **4**, 1955; **6**, 1957)

Melnick, Daniel, Ph.D. The Best Foods, Inc., Research Labs., Bayonne, N. J. *Chief Technologist.* (**2**, 1940; **5**, 1942)

Melnick, Joseph L., Ph.D. Div. of Biologics Standards, NIH, Bethesda 14, Md. *Chief of Virus Labs.* (**6**, 1948)

Melville, Donald B., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2**, 1947)

Melville, Kenneth Ivan, M.D. McGill Univ., Montreal, Quebec, Canada. *Prof. and Chairman, Dept. of Pharmacology.* (**3**, 1931)

Mendel, Bruno, M.D. Univ. of Amsterdam, Pharmacotherapeutic Lab., Polderweg 20, Amsterdam, Holland. *Prof. and Head, Dept. of Pharmacology.* (**2**, 1947)

Mendelson, E. S., A.B. R.D. 2, Telford, Pa. *Research Physiologist, Air Crew Equipment Lab., Naval Air Material Ctr., Philadelphia* 12. (**1**, 1949)

Mendez, Rafael, M.D. Natl. Inst. of Cardiology, Avenida Cuauhtemoc 300, Mexico D.F., Mexico. *Head of Dept. of Pharmacology.* (**3**, 1944)

Mendlowitz, Milton, M.D. 2 E. 95th St., New York City 28. *Assoc. Attending Physician, Mt. Sinai Hosp.* (**1**, 1949)

Meneely, George R., M.D. Vanderbilt Univ. Hosp., Nashville 5, Tenn. *Dir., Clin. Radioisotope Ctr.; Assoc. Prof. of Medicine, Vanderbilt Univ.* (**1**, 1951; **4**, 1946)

Meng, H. C., M.D., Ph.D. Vanderbilt Univ. Med. School, Dept. of Physiology, Nashville 5. *Assoc. Prof.* (**1**, 1950)

Menkin, Valy, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Exptl. Pathology; Head of Exptl. Pathology, Agnes Barr Chase Fndn. for Cancer Research.* (**1**, 1932; **4**, 1932; **6**, 1931)

Menten, Maud L., M.D., Ph.D. 38 Marlboro St., West, Leamington, Ont., Canada. *Retired Prof. of Pathology, Univ. of Pittsburgh.* (**1R**, 1915; **4**, 1927)

Merrifield, Robert B., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Asst. Prof.* (**2**, 1955)

Merrill, John P., M.D. Peter Bent Brigham Hosp., Boston 15, Mass. *Senior Assoc. in Medicine; Asst. Prof. of Medicine, Harvard Med. School.* (**1**, 1957)

Mertz, Edwin T., Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Professor.* (**2**, 1950; **5**, 1954)

Mettier, Stacy R., M.D. Univ. of California Hospital, San Francisco. *Prof. of Medicine.* (**4**, 1932)

Mettler, Fred A., Ph.D., M.D. Sc.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Neurology, New York City. *Prof. of Anatomy.* (**1**, 1937)

Metzler, David E., Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Asst. Prof.* (**2**, 1957)

Meyer, Arthur E., Ph.D. Hunt, Texas. (**1R**, 1948)

Meyer, Curtis E., Ph.D. Upjohn Co., Kalamazoo, Mich. *Research Assoc. in Nutrition and Metabolic Diseases.* (**2**, 1942)

Meyer, Dallas K., Ph.D. 401 Crestland Rd., Columbia, Mo. *Prof. of Physiology, Univ. of Missouri School of Medicine.* (**1**, 1951)

Meyer, Frieda L., Ph.D. Univ. of Alabama, School of Home Economics, University. *Dir., Research Lab. of Human Nutrition.* (**5**, 1949)

Meyer, Karl, M.D., Ph.D. Columbia Univ. Col-

lege of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (2, 1934)

Meyer, Karl F., M.D., Ph.D. George W. Hooper Foundation, Univ. of California Med. Center, San Francisco. *Director.* (4, 1930; 6, 1922)

Meyer, Roland K., Ph.D. Univ. of Wisconsin, Birge Hall, Madison 6. *Prof. of Zoology.* (1, 1949)

Meyers, Frederick H., M.D. Univ. of California School of Medicine, Dept. of Pharmacology, San Francisco 22. *Asst. Prof.* (3, 1955)

Mezey, Kálmán, M.D. Calle 84, No. 9–68, Bogota, Colombia, South America. (3, 1950)

Miale, John B., M.D. Jackson Memorial Hosp., Miami, Fla. *Dir., Clin. Pathology Labs.; Prof. of Pathology, Univ. of Miami School of Medicine.* (4, 1956)

Michel, Harry O., Ph.D. Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Bioanalytical Br.* (2, 1949)

Mickelsen, Olaf, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Chief, Lab. of Nutrition and Endocrinology.* (2, 1944; 5, 1956)

Mider, George Burroughs, M.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Assoc. Dir. in Charge of Research.* (4, 1940)

Migicovsky, Bert B., Ph.D. Canada Dept. of Agriculture, Div. of Chemistry, Science Service, Ottawa. *Head, Animal Chemistry.* (2, 1956)

Mihalyi, Elemer, M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chemist.* (2, 1954)

Milch, Lawrence J., Ph.D. USAF School of Aviation Medicine, Randolph AFB, Texas. *Chief, Dept. of Pharmacology and Biochemistry.* (3, 1954)

Miles, Walter R,. Ph.D. U. S. Naval Med. Research Lab., U. S. Submarine Base, New London, Conn. *Scientific Dir.* (1, 1919)

Milhorat, Ade T., M.D. Cornell Univ. Med. College, New York City 21. *Prof. of Clinical Medicine; Research Assoc., Russell Sage Inst. of Pathology.* (1, 1934; 3, 1937; 5, 1935)

Militzer, Walter E., Ph.D. Univ. of Nebraska, Lincoln. *Dean, College of Arts & Sci.* (2, 1951)

Miller, Augustus Taylor, Jr., Ph.D., M.D. Univ. of North Carolina Med. School, Chapel Hill. *Prof. of Physiology.* (1, 1944)

Miller, Benjamin F., M.D. May Inst. for Med. Research of Jewish Hospital Assn., 421 Ridgeway Ave., Cincinnati, Ohio, *Director; Assoc. Prof. of Exper. Medicine, Univ. of Cincinnati.* (2, 1938)

Miller, C. Phillip, M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Professor.* (4, 1925; 6, 1928)

Miller, Carey D., M.S. Univ. of Hawaii, Honolulu. *Prof. of Foods and Nutrition, Hawaii Agricultural Exper. Station.* (5, 1942)

Miller, Elizabeth C., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Asst. Prof. of Oncology.* (2, 1951)

Miller, Franklin R., M.D. Snyder Clinic, 103½ E. 9th St., Winfield, Kans. (4, 1940)

Miller, Frederick R., M.D. 280 Carlton St., Toronto 2, Canada. (1R, 1908)

Miller, Gail L., Ph.D. QM Research and Development Center, Natick, Mass. *Head, Biochemistry.* (2, 1949)

Miller, George A., Ph.D. Harvard Univ., Cambridge 38. *Assoc. Prof., Psychology Dept.* (1, 1948)

Miller, George H., M.D. American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Asst. Dir.* (3, 1925)

Miller, Jack W., Ph.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison. *Asst. Prof.* (3, 1956)

Miller, James A., Ph.D. Univ. of Wisconsin Med. School, McArdle Mem. Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (2, 1949)

Miller, James Albert, Jr., Ph.D. Emory Univ., Emory University, Ga. *Prof. of Anatomy.* (1, 1957)

Miller, Leon L., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Assoc. Prof. of Radiation Biology and Biochemistry.* (2, 1947)

Miller, Lila, Ph.D. Univ. of Michigan, Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (2, 1946)

Miller, Lloyd C., Ph.D. U. S. Pharmacopeia, 46 Park Ave., New York City 16. *Dir. of Revision.* (3, 1938)

Miller, O. Neal, Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Assoc. Prof. of Biochemistry and Medicine.* (2, 1954; 5, 1956)

Miller, R. C., Ph.D. Pennsylvania State Univ., University Park. *Prof. of Agricultural and Biological Chemistry.* (5, 1935)

Miller, Ruth E., Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Bacteriology.* (6, 1954)

Miller, Zelma Baker, Ph.D. 511 Evanswood Pl., Cincinnati 20, Ohio. (2, 1940)

Millican, R. Carl, M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., PHS.* (3, 1951)

Millichap, J. Gordon, M.D. Albert Einstein College of Medicine, New York City 61. *Asst. Prof. of Pharmacology and Pediatrics.* (3, 1957)

Millman, Nathan, M.Sc., Ph.D. Bayberry Rd., R.D. 2, Somerville, N. J. *Dir., Div. of Physiology and Pharmacology, Ortho Research Foundation, Raritan, N. J.* (1, 1950)

Mills, Clarence A., Ph.D., M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Prof. of Ex-*

per. Medicine, Univ. of Cincinnati. (**1**, 1921; **2**, 1921)

Mills, Lewis C., Jr., M.D. Hahnemann Med. College, Philadelphia, Pa. *Asst. Prof. of Medicine.* (**3**, 1957)

Mills, Russell C., Ph.D. Univ. of Kansas, Dept. of Biochemistry, Lawrence. *Professor.* (**2**, 1956)

Minard, David, Ph.D., M.D. 5401 Edgemoor Lane, Bethesda 14, Md. (**1**, 1950)

Minot, Ann S., Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Biochemistry; Dir., Clin. Chemistry Labs.* (**1**, 1923)

Minz, Bruno, M.D. Osawatomie State Hosp., Osawatomie, Kans. *Dir. of Research; Prof. of Pharmacology, Univ. of Kansas Med. Ctr.* (**3**, 1952)

Mirick, George S., M.D. Johns Hopkins Univ., School of Medicine, Baltimore, Md. *Assoc. Prof. of Medicine.* (**6**, 1950)

Mirsky, Alfred E., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2**, 1941)

Mirsky, I. Arthur, M.D. Univ. of Pittsburgh School of Medicine, Dept. of Clinical Science, O'Hara St., Pittsburgh 13, Pa. *Prof. and Chairman of Dept.* (**1**, 1936)

Mitchell, Harold H., M.D. 9730 Wilshire Blvd. Beverly Hills Calif. *Assoc. Scientist, Rand Corp.* (**6**, 1943)

Mitchell, Harold H., Ph.D. Univ. of Illinois, Div. of Animal Nutrition, Urbana. *Prof. Emeritus.* (**2R**, 1919; **5**, 1933)

Mitchell, Helen S., Ph.D. Univ. of Massachusetts, Amherst. *Dean of School of Home Economics.* (**5**, 1933)

Mitchell, Herschel K., Ph.D. California Inst. of Technology, Biology Div., Pasadena. *Professor.* (**2**, 1955)

Mitoma, Chozo, Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chemist.* (**2**, 1957)

Miya, Tom S., Ph.D. Purdue Univ. School of Pharmacy, Lafayette, Ind. *Assoc. Prof. of Pharmcology.* (**3**, 1956)

Modell, Walter, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. in Pharmacodynamics.* (**3**, 1944)

Moe, Gordon Kenneth, Ph.D., M.D. State Univ. of New York at Syracuse, School of Medicine, Dept. of Physiology, Syracuse. *Prof. and Head of Dept.* (**1**, 1952)

Mohn, James F., M.D. Univ. of Buffalo School of Medicine, Dept. of Bacteriology and Immunology, Buffalo 14, N. Y. *Assoc. Prof.* (**6**, 1946)

Moldave, Kivie, Ph.D. Tufts Univ. School of Medicine, Dept. of Biochemistry, Boston 11, Mass. *Asst. Prof.* (**2**, 1957)

Molitor, Hans, M.D. Merck Sharp & Dohme Research Labs., Rahway, N. J. *Dir., Scientific Relations; Chairman, Board of Trustees Merck Inst. for Therapeutic Research.* (**1**, 1933; **3**, 1942)

Molland, Jacob, M.D., Ph.D. Univ. of Oslo, Oslo, Norway. *Prof. and Head, Dept. of Pharmacology.* (**3**, 1948)

Molnar, George W., Ph.D. U. S. Army Med. Research Lab., Fort Knox, Ky. *Physiologist.* (**1**, 1949)

Molomut, Norman, Ph.D. Waldemar Med. Research Fndn., Port Washington, L. I., N. Y. *Dir. of Research.* (**6**, 1942)

Mommaerts, Wilfried F. H. M., Ph.D. Univ. of California Med. Ctr., Los Angeles 24. *Prof. of Medicine and Physiology; Dir., Cardio-Vascular Research Lab.* (**1**, 1955; **2**, 1951)

Monge, Carlos, D.Sc. (Hon.) Inst. of Biology, Andina Univ., Lima, Peru. *Dir., School of Advanced Studies.* (**1H**, 1952)

Monkhouse, Frank C., Ph.D. Univ. of Toronto, Dept. of Physiology, Toronto, Canada. *Assoc. Prof.* (**1**, 1955)

Montgomery, Arthur V., Jr., M.D., Ph.D. Univ. of Colorado, Dept. of Surgery (Research), Denver 20. *Instructor.* (**1**, 1955)

Montgomery, Hugh, M.D. Univ. of Pennsylvania Hospital, 36th and Spruce Sts., Philadelphia. *Assoc. Prof. of Medicine.* (**1**, 1950)

Montgomery, Rex, Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Asst. Prof.* (**2**, 1957)

Moon, Henry D., M.D. Univ. of California Med. School, Dept. of Pathology, San Francisco 22. *Chairman; City Pathologist.* (**4**, 1950)

Moon, Virgil H., M.Sc., M.D. 824 Majorca Ave., Coral Gables 34, Fla. *Prof. Emeritus of Pathology, Univ. of Miami.* (**4**, 1934)

Moore, A. R., Ph.D. 133 Third St., Pacific Grove, Calif. (**1R**, 1912)

Moore, Alice E., M.D. Sloan-Kettering Div. of Cornell Univ. Med. School, New York City 21. *Assoc. Prof. of Biology.* (**6**, 1956)

Moore, Carl Vernon, M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine.* (**4**, 1938; **5**, 1941)

Moore, Dan H., Ph.D. Rockefeller Inst., 66th St. at York Ave., New York City 21. (**1**, 1948)

Moore, James C., M.D. Univ. of Louisville School of Medicine, Louisville 2, Ky. *Asst. Prof. of Physiology.* (**1**, 1957)

Moore, Lane A., Ph.D. USDA, Dairy Cattle Research Br., Beltsville, Md. *Chief.* (**5**, 1940)

Moore, Richard D., M.D. Western Reserve Univ. Inst. of Pathology, Cleveland 6, Ohio. (**4**, 1957)

Moore, Robert A., M.D., Ph.D. Health Professions Bldg., Univ. of Pittsburgh, Pittsburgh 13, Pa. (**4**, 1929)

Moore, Stanford, Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Member and Prof.* (**2**, 1949)

Moorhouse, Victor Henry K., M.D. 32 Amanda St., Orangeville, Ontario, Canada. *Prof. Emeritus of Physiology, Univ. of Manitoba, Winnipeg.* (**1R,** 1912)

Morales, Manuel F., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Physical Biochemistry Div.* (**1,** 1950)

Moran, Neil C., M.D. Emory Univ., Div. of Basic Health Sciences, Dept. of Pharmacology, Emory University, Ga. *Assoc. Prof.* (**3,** 1956)

Moran, Thomas J., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Assoc. Prof.* (**4,** 1955)

More, Robert H., M.Sc., M.D. Queen's Univ., Dept. of Pathology, Kingston, Ont., Canada. *Prof. and Head of Dept.* (**4,** 1949)

Morehouse, Laurence E., Ph.D. Univ. of California, Los Angeles 24. *Prof., Dept. of Physical Education.* (**1,** 1947)

Morehouse, Margaret G., Ph.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Morell, Samuel A., Ph.D. Pabst Labs., Milwaukee, Wisc. *Head, Organic and Fine Chemicals Lab.* (**2,** 1954)

Morgan, Agnes Fay, Ph.D. Univ. of California, Berkeley 4. *Prof. Emeritus of Nutrition; Biochemist, Agricultural Exper. Station.* (**2R,** 1929; **5,** 1933)

Morgan, Charles F., Ph.D. Georgetown Univ. School of Medicine, Washington, D. C. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1948; **3,** 1947)

Morgan, Clifford T., Ph.D. Town Point, Cambridge, Md. (**1,** 1943)

Morgan, Councilman, M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. in Microbiology.* (**6,** 1956)

Morgan, Herbert R., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Bacteriology; Assoc. Prof. of Medicine.* (**6,** 1957)

Morgan, Joseph F., Ph.D. Laboratory of Hygiene, Dept. of Natl. Health and Welfare, Tunney's Pasture, Ottawa, Canada. *Chief, Biochemical Research Labs.* (**2,** 1953)

Morgulis, Sergius, Ph.D. Univ. of Nebraska College of Medicine, Omaha 5, *Prof. Emeritus.* (**1R,** 1914; **2R,** 1916)

Morin, F. A., M.D., Ph.D. Wayne State Univ. College of Medicine, Dept. of Anatomy, Detroit 7, Mich. *Professor.* (**1,** 1954)

Morison, Robert S., M.D. Rockefeller Foundation, 49 W. 49th St., New York City 20. *Dir. for Biological and Med. Research.* (**1,** 1938)

Moritz, Alan R., M.D. Western Reserve Univ., Inst. of Pathology, Cleveland, Ohio. *Prof. of Pathology and Dir. of the Institute.* (**4,** 1934)

Morrell, Clarence Allison, Ph.D. Dept. of Natl. Health and Welfare, Tunney's Pasture, Ottawa, Ontario, Canada. *Dir., Food and Drug Directorate.* (**3,** 1937)

Morris, David M., Ph.D. Univ. of Miami Med. Branch, Anatomy Dept., Coral Gables, Fla. *Asst. Prof.* (**1,** 1957)

Morris, Harold P., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Nutrition and Carcinogenesis Sec., Biochemistry Lab.* (**2,** 1944; **5,** 1943)

Morris, J. Anthony, M.Sc., Ph.D. 406th Med. Gen. Lab. Dept. of Virus and Rickettsial Diseases, APO 343, San Francisco, Calif. *Asst. Chief.* (**6,** 1951)

Morris, Lucien E., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. of Anesthesiology.* (**3,** 1952)

Morris, Marion C., Ph.D. Natl. Foundation for Infantile Paralysis, 301 E. 42nd St., New York City 17. *Asst. Dir., Professional Education.* (**6,** 1936)

Morrison, Dempsie B., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Dir. of Clin. Chemistry; Prof. of Chemistry.* (**2,** 1936)

Morrison, Martin, Ph.D. Univ. of Rochester Med. Ctr., Dept. of Biochemistry, Rochester 20, N. Y. *Asst. Prof.* (**2,** 1957)

Morrison, Peter R., Ph.D. Univ. of Wisconsin, Madison 6. *Assoc. Prof. of Zoology and Physiology.* (**1,** 1952; **2,** 1950)

Morse, Minerva, Ph.D. 5525 Kimbark Ave., Chicago, Ill. *Research Assoc., Dept. of Pediatrics, Univ. of Chicago.* (**2,** 1934)

Mortimer, Bernard, Ph.D., M.D. 25 N. Ottawa St., Joliet, Ill. *Silver Cross and St. Joseph's Hosps.* (**1,** 1936)

Morton, John J., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. Emeritus of Surgery.* (**4R,** 1927)

Mosbach, Erwin H., Ph.D. Columbia Univ. Research Service, Goldwater Memorial Hosp., Welfare Island, New York City 17. *Asst. Prof. of Biochemistry.* (**2,** 1957)

Moses, Campbell, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Assoc. Prof. of Medicine.* (**1,** 1948)

Moskowitz, Merwin, Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. *Assoc. Prof. of Bacteriology.* (**6,** 1957)

Moss, W. Glen, Ph.D. Univ. of Miami Med. School, Coral Gables 34, Fla. *Professor.* (**1,** 1951)

Motley, Hurley L., Ph.D., M.D. 1212 Shatto St., Los Angeles 17, Calif. *Prof. of Medicine and Dir., Cardio-Respiratory Lab., Univ. of Southern California School of Medicine.* (**1,** 1947)

Moulder, James W., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Microbiology, Depts. of Microbiology and Biochemistry.* (**2,** 1950)

Mountain, Isabel M., Ph.D. Babies Hospital,

3975 Broadway, New York City 32. (**6,** 1947)

Mountcastle, Vernon B., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiology.* (**1,** 1949)

Mounter, L. A., Ph.D. Med. College of Virginia, Dept. of Biophysics, Richmond. *Assoc. Prof.* (**2,** 1956)

Moxon, Alvin L., Ph.D. Ohio Agricultural Experiment Station, Wooster. *Prof. and Assoc. Chairman, Animal Science Dept.; Prof. of Biochemistry, Ohio State Univ.* (**2,** 1944)

Moyer, Arden W., Ph.D. 138 Fremont Ave., Park Ridge, N. J. *Research Biochemist, Lederle Labs., Pearl River, N. Y.* (**6,** 1946)

Moyer, Carl A., M.D. Washington Univ., School of Medicine, Dept. of Surgery, St. Louis 10, Mo. (**1,** 1943)

Moyer, John Henry, III, M.D. Hahnemann Med. College and Hosp., Philadelphia, Pa. *Prof. of Medicine.* (**3,** 1951)

Mudd, Stuart, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Microbiology.* (**1,** 1921; **4,** 1927; **6,** 1927)

Mudge, Gilbert H., M.D., D.M.S. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Prof. of Pharmacology and Exptl. Therapeutics and Dir. of Dept.* (**1,** 1951; **3,** 1956)

Muehlberger, Clarence W., Ph.D. State Health Dept. Labs., Lansing 4, Mich. *State Toxicologist.* (**3,** 1928)

Mueller, Gerald C., M.D., Ph.D. Univ. of Wisconsin, McArdle Lab., Madison. *Assoc. Prof.* (**2,** 1952)

Muirhead, E. E. Univ. of Texas Southwestern Med. School, Dept. of Pathology, Dallas. *Chief; Div. of Hematology, Dept. of Internal Medicine.* (**1,** 1953; **4,** 1952)

Mukerji, B., D.Sc., M.B., Hon., M. P. S. Central Drug Research Inst., Lucknow, India. *Director.* (**3,** 1938)

Mulford, Dwight J., Ph.D. Kansas Univ. Med. School, Dept. of Biochemistry, Lawrence. *Professor.* (**2,** 1948)

Mulinos, M. G., M.D., Ph.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. and 105th St., New York City 29. *Assoc. Prof. of Pharmacology and Physiology; Med. Res. Dir., Commercial Solvents Corp.* (**3,** 1931)

Mull, James W., Ph.D. 1870 Grove Ave., Quincy, Ill. *Assoc., Quincy Specialties Co.* (**2,** 1937)

Müller, Otto H., Dr. rer. nat. State Univ. of New York, Upstate Med. Center, Dept. of Physiology, Syracuse 10. *Prof.* (**1,** 1947)

Muller, Robert H., M.D. 36 Glen Ridge Pkwy., Montclair, N. J. *Internist, Microbiologist.* (**6,** 1950)

Mulligan, Richard M., M.D. Univ. of Colorado School of Medicine, 4200 East 9th Ave., Denver 20. *Prof. of Pathology.* (**4,** 1947)

Mullin, F. J., Ph.D. Shimer College, Mount Carroll, Ill. *President.* (**1,** 1937)

Mullins, L. J., Ph.D. Purdue Univ., Biophysical Lab., Lafayette, Ind. *Assoc. Prof. of Biophysics.* (**1,** 1952)

Munoz, John J., Ph.D. Montana State Univ., Missoula. *Prof. of Bacteriology.* (**6,** 1951)

Munsell, Hazel E., Ph.D. 25 Audubon St., New Britain, Conn. (**5,** 1933)

Munson, Paul L., Ph.D. Harvard School of Dental Medicine, 188 Longwood Ave., Boston 15, Mass. *Assoc. Prof. of Pharmacology.* (**2,** 1950; **3,** 1954)

Muntwyler, Edward, Ph.D. State Univ. Med. Center at New York, 450 Clarkson Ave., Brooklyn 3, N. Y. *Prof. of Biochemistry.* (**2,** 1931)

Muntz, John A., Ph.D. Albany Med. College, Dept. of Biochemistry, Albany 8, N. Y. *Professor.* (**2,** 1948)

Murlin, John R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. Emeritus of Physiology.* (**1R,** 1906; **2R,** 1908; **5R,** 1933)

Murphy, George E., M.D. Cornell Univ. Med. College, New York City. *Assoc. Prof. of Pathology.* (**4,** 1954)

Murphy, Quillian R., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Physiology, Madison 6. *Assoc. Prof.* (**1,** 1949)

Murray, Everitt G. D., M.D., D.Sc. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. *Prof. and Head of Dept. of Bacteriology and Immunology (Retired); Visiting Research Prof.* (**6,** 1933)

Murray, F. Joseph, Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Asst. to Vice-Pres. for Research.* (**6,** 1950)

Musacchia, X. J., Ph.D. St. Louis Univ. Biological Labs., 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof.* (**1,** 1952)

Muschel, Louis H., Ph.D. Walter Reed Army Inst. of Research, Div. of Immunology, Walter Reed Army Med. Ctr., Washington 12, D. C. *Major.* (**6,** 1956)

Mushett, Charles W., Ph.D. Merck Sharp & Dohme Research Labs., Merck & Co., Inc., Rahway, N. J. *Asst. Dir., Scientific Relations.* (**4,** 1948)

Muus, Jytte, Mag. Scient. Mount Holyoke College, South Hadley, Mass. *Prof. of Biochemistry.* (**2,** 1946)

Myers, J. D., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Medicine, Pittsburgh 13, Pa. *Professor.* (**1,** 1951)

Myers, William G., Ph.D., M.D. 2724 Wexford Rd., Columbus 21, Ohio. *Julius Stone Research Prof. of Medical Biophysics, Ohio State Univ.* (**1,** 1952)

Myrvik, Quentin N., Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Asst. Prof. of Microbiology.* **(6,** 1954)

Nachmansohn, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* **(1,** 1940; **2,** 1951)

Nadel, Eli M., Natl. Insts. of Health, Bethesda 14, Md. *Pathologist.* **(4,** 1953)

Nadler, J. Ernest, M.D., Med.D.Sc. 80–16 Lefferts Blvd., Kew Gardens 15, N. Y. *Attending Consultant, USVA Hospital, Bronx; Asst. Prof. of Medicine, New York Med. College.* **(3,** 1940)

Nahas, Gabriel G., M.D., Ph.D. Walter Reed Army Inst. of Research, Dept. of Cardio-Respiratory Diseases, WRAMC, Washington 12, D. C. *Chief, Respiratory Sec.* **(1,** 1957)

Nahum, Louis N., M.D. Yale Med. School, New Haven, Conn. *Lecturer.* **(1,** 1934)

Najjar, Victor A., M.D. Vanderbilt Univ. School of Medicine, Dept. of Microbiology, Nashville 5, Tenn. *Prof. and Head of Dept.* **(2,** 1946)

Nakada, Henry I., Ph.D. 476 Prospect St., La Jolla, Calif. *Member, Research Staff, Scripps Clinic and Research Fndn.* **(2,** 1957)

Nash, Thomas P., Jr., Ph.D. 62 So. Dunlap St., Memphis, Tenn. *Dean, School of Biological Sciences, Univ. of Tennessee College of Medicine.* **(2,** 1923)

Nason, Alvin, Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., Baltimore 18, Md. *Assoc. Prof.* **(2,** 1953)

Nasset, Edmund S., Ph.D. Univ. of Rochester, School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* **(1,** 1932; **5,** 1940)

Nastuk, William L., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Assoc. Prof. of Physiology.* **(1,** 1949)

Natelson, Samuel, Ph.D. St. Vincent's Hosp., Dept. of Biochemistry, New York City 11. *Dept. Head.* **(2,** 1950)

Necheles, Heinrich, M.D., Ph.D. Michael Reese Hospital, Chicago, Ill. *Dir. of Gastrointestinal Research.* **(1,** 1929)

Neff, William D., Ph.D. Univ. of Chicago, Dept. of Psychology, Faculty Exchange, Chicago 37, Ill. *Professor.* **(1,** 1950)

Neilands, John B., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley. *Assoc. Prof. of Biochemistry.* **(2,** 1953)

Neill, James M., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Bacteriology and Immunology.* **(6,** 1930)

Neilson, Charles Hugh, Ph.D., M.D. Humboldt Bldg., St. Louis, Mo. *Physician and Internist, St. John's Hosp.* **(2,** 1906)

Nelson, Arthur A., M.D., Ph.D. 1714 Corwin Dr., Silver Spring, Md. *Med. Officer (Pathology), Food & Drug Admin., Div. of Pharmacology.* **(4,** 1942)

Nelson, Carl T., M.D. 630 W. 168th St., New York City 32. *Prof. of Dermatology, Columbia Univ.* **(6,** 1943)

Nelson, Dorothy, Ph.D. Univ. of Illinois Med. School, Dept. of Clin. Science, Chicago. *Research Assoc.* **(1,** 1956)

Nelson, E. M., Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Nutrition.* **(2,** 1927; **5,** 1933)

Nelson, Eric L., Ph.D. Univ. of California Med. Ctr., Dept. of Infectious Diseases, Los Angeles 24. **(4,** 1957)

Nelson, Erwin E., Ph.D., M.D. Univ. of New Mexico, Albuquerque. *Visiting Lecturer in Pharmacology.* **(3R,** 1924)

Nelson, John B., Ph.D. Rockefeller Inst. for Med. Research, New York City. *Assoc. Member.* **(4,** 1934)

Nelson, John M., Ph.D. 39 Claremont Ave., New York City 27. *Prof. Emeritus of Organic Chemistry, Columbia Univ.* **(2R,** 1923)

Nelson, Marjorie M., Ph.D. Univ. of California, Inst. of Exper. Biology, Berkeley. *Assoc. Research Biochemist.* **(5,** 1950)

Nelson, Norton, Ph.D. New York Univ. Med. Ctr., 550 First Ave., New York City 16. *Prof. of Industrial Medicine.* **(2,** 1946)

Nelson, P. Mabel, Ph.D. 1829 Santa Ana Ave., Costa Mesa, Calif. **(5R,** 1934)

Nelson, Walter L., Ph.D. Cornell Univ., Dept. of Biochemistry, Ithaca, N. Y. *Prof. of Biochemistry.* **(2,** 1956; **5,** 1951)

Nelson, Warren O., Ph.D. Univ. of Iowa School of Medicine, Iowa City. *Prof. of Anatomy; serving as Med. Dir., Population Council, Rockefeller Inst., New York City.* **(1,** 1937)

Neter, Erwin, M.D. Children's Hospital, 219 Bryant St., Buffalo, N. Y. *Dir., Dept. of Bacteriology.* **(6,** 1937)

Nettleship, Anderson, M.D. 2023 Broadway, Little Rock, Ark. **(4,** 1942)

Neuman, William F., Ph.D., Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Biochemistry and Pharmacology.* **(2,** 1949; **3,** 1952)

Neumann, Charles G., M.D. 2 Schuyler St., New Rochelle, N. Y. *Resident Surgeon, New York Hospital; Assoc. Prof of Clin. Surgery, New York Univ. Post-Grad. Med. School.* **(1,** 1944)

Neurath, Hans, Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Prof. and Exec. Officer of Dept.* **(2,** 1940; **6,** 1944)

Neuwirth, Isaac, Ph.D. 209 E. 23rd St., New York City 10. *Prof. of Pharmacology, New York Univ. College of Dentistry.* **(2,** 1924; **3,** 1931)

Newburgh, Robert W., Ph.D. Science Research

Inst., Oregon State College, Corvallis. *Chemist, USDA and Asst. Prof. of Chemistry.* (2, 1957)

Newman, Elliot V., M.D., Vanderbilt Univ. Hospital, Nashville, Tenn. *Prof. of Exper. Medicine.* (1, 1948)

Newman, Henry W., M.D. Stanford Med. School, Clay and Webster Sts., San Francisco 15, Calif. *Prof. of Medicine.* (3, 1949)

Nice, Leonard B., Ph.D. 5725 S. Harper Ave., Chicago 37, Ill. *Prof. Emeritus of Physiology, Chicago Med. School.* (1, 1921)

Nichol, Charles A., Ph.D. Roswell Park Memorial Inst., Buffalo 3, N. Y. *Dir. of Experimental Therapeutics.* (2, 1954)

Nicholas, John S., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. of Biology.* (1, 1927)

Nichols, John M., Ph.D., M.D. Med. College of Virginia, Dept. of Pathology, Richmond. *Research Fellow in Pathology.* (1, 1951; 4, 1957)

Nicholson, Hayden C., M.D. Hosp. Ccl. of Greater New York, 3 E. 54th St., New York City 22. *Exec. Dir.* (1, 1932)

Nickerson, John L., Ph.D. Chicago Medical School, Chicago 12, Ill. *Prof. of Physiology and Pharmacology.* (1, 1945)

Nickerson, Mark, Ph.D., M.D. Univ. of Manitoba Med. School, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Prof. and Head, Dept. of Pharmacology and Therapeutics.* (1, 1951; 3, 1947)

Nicoll, Paul A., Ph.D. Indiana Univ., Bloomington. *Prof. of Physiology.* (1, 1945)

Niemann, Carl G., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Organic Chemistry.* (2, 1940)

Nims, Leslie F., Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, Long Island, N. Y. *Sr. Physiologist.* (1, 1940)

Nishimura, Edwin T., M.D. Atomic Bomb Casualty Commission, APO 354, San Francisco, Calif. *Pathologist.* (4, 1956)

Nobe, Robert Laing, M.D., Ph.D., D.Sc. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. (1, 1941)

Noda, Lafayette, Ph.D. Dartmouth College, Dept. of Biochemistry, Hanover, N. H. *Assoc. Prof.* (2, 1955)

Noell, Werner K., M.D. Roswell Park Mem. Inst., Buffalo 3, N. Y. *Prin. Research Scientist.* (1, 1950)

Noonan, Thomas R., M.D. Univ. of Rochester, Dept. of Radiation Biology, Rochester 20, N. Y. *Assoc. Prof.* (1, 1955)

Nord, F. F., D.Sc. Fordham Univ., New York City. *Prof. of Organic Chemistry and Enzymology.* (2, 1940)

Norman, Tom D., M.D. Univ. of Mississippi Med. Ctr., Dept. of Pathology, Jackson 6. *Assoc. Prof.* (4, 1957)

Norris, L. C., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Nutrition.* (2, 1939; 5, 1934)

Norris, William P., Ph.D. Argonne Natl. Lab., Div. of Biological and Med. Research, Box 299, Lemont, Ill. *Assoc. Biochemist.* (2, 1957)

North, William C., M.D., Ph.D. Northwestern Univ. Med. School, Chicago 11, Ill. *Asst. Prof. of Pharmacology.* (3, 1955)

Northrop, J. H., Ph.D., Sc.D. Univ. of California, Berkeley 4. *Member of Rockefeller Inst.* (2, 1938)

Northup, David W., Ph.D. West Virginia Univ. Med. School, Morgantown. *Prof. and Head of Physiology.* (1, 1936)

Norton, Stata, Ph.D. Wellcome Research Labs., Tuckahoe, N. Y. *Pharmacologist.* (3, 1955)

Nothman, Martin M., M.D. New England Center Hosp., Harrison Ave. and Bennet St., Boston 11, Mass. *Asst. Clin. Prof. of Internal Medicine.* (3, 1954)

Novelli, G. David, Ph.D. Oak Ridge Natl. Lab., Biology Div., P.O. Box Y, Oak Ridge, Tenn. (2, 1951)

Novikoff, Alex B., Ph.D. Albert Einstein College of Medicine, New York 61, N. Y. (2, 1952)

Nowinski, W. W., Ph.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Biochemistry; Dir., Tissue Metabolism Research Lab.* (1, 1948)

Nungester, Walter James, Sc.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. and Chairman of Dept. of Bacteriology.* (6, 1949)

Nyboer, Jan, Sc.D., M.D. Harper Hosp., 3835 Brush, Detroit 1, Mich. (1, 1951)

Nyc, Joseph Frank, Ph.D. 14357 Miranda St., Van Nuys, Calif. *Assoc. Prof. of Physiological Chemistry, Univ. of California School of Medicine, Los Angeles.* (2, 1952)

Oberst, Fred W., Ph.D. Directorate of Med. Research, Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Gassing Branch.* (2, 1936; 3, 1949)

Ochoa, Severo, M.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Prof. and Chairman of Dept. of Biochemistry.* (2, 1942)

O'Dell, Boyd L., Ph.D. Univ. of Missouri, 106 Schweitzer Hall, Columbia. *Prof. of Agricultural Chemistry.* (2, 1952; 5, 1953)

Odell, Theodore T., Jr., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biologist.* (1, 1957)

O'Dell, Thomas B., Ph.D. Irwin, Neisler Research Labs., Pharmacology Sec., Decatur, Ill. *Dir., Biol. Research Sec.* (3, 1956)

Odland, Lura M., Ph.D. USDA, State Exper. Sta-

tions Div., Washington 25, D. C. *Nutritionist.* (5, 1956)

Oesper, Peter, Ph.D. Hahnemann Med. College, Div. of Biochemistry, Philadelphia 2, Pa. *Assoc. Prof.* (2, 1956)

Oester, Y. T., Ph.D., M.D. Loyola Univ. Stritch School of Medicine, 706 S. Wolcott, Chicago 12, Ill. *Prof. of Pharmacology; Acting Chairman.* (3, 1954)

Ogata, Tomio, M.D., D.M.Sc. Univ. of Tokyo, Faculty of Medicine, Hongo, Tokyo, Japan. *Prof. of Serology.* (6, 1957)

Ogden, Eric. Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (1, 1941)

Oginsky, Evelyn L., Ph.D. Univ. of Oregon Med. School, Dept. of Bacteriology, Portland 1. *Assoc Prof.* (2, 1954)

Ogle, Kenneth N., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant in Sec. on Biophysical Research and Research Consultant in Sec. on Ophthalmology; Prof. of Physiological Optics, Univ. of Minnesota.* (1, 1953)

O'Hare, James P., M.D. 520 Commonwealth Ave., Boston, Mass. *Physician, Peter Bent Brigham Hospital; Emeritus Lecturer in Medicine, Harvard Med. School.* (4R, 1927)

Ohler, Edwin Allen, Ph.D. Temple Univ. School of Medicine, Dept. of Physiology, 3400 N. Broad St., Philadelphia 40, Pa. *Assoc. Prof.* (1, 1954)

Ohlson, Margaret A., Ph.D. State Univ. of Iowa, University Hosps., Iowa City. *Dir., Nutrition Dept.* (5, 1945)

Okey, Ruth, Ph.D. Univ. of California, Dept. of Nutrition and Home Economics, Berkeley 4. *Prof. of Nutrition; Biochemist, Agric. Exper. Station.* (2, 1922; 5, 1933)

Okita, George T., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Asst. Prof.* (3, 1956)

O'Leary, John F., Ph.D. Directorate of Med. Research, Chemical Warfare Labs., Pharmacology Branch, Army Chemical Center, Md. *Asst. Branch Chief.* (3, 1957)

Olcott, Harold S., Ph.D. Univ. of California, Dept. of Food Technology, Berkeley 4. *Prof. of Marine Food Technology.* (2, 1935)

Oldham, Helen, Ph.D. U. S. Dept. of Agriculture Research Center, Room 126 North Bldg., Beltsville, Md. *Nutrition Specialist.* (5, 1946)

Oleson, J. J., Ph.D. American Cyanamid Co., Research Div., Exptl. Therapeutics Research Sec., Pearl River, N. Y. (2, 1950)

Olitsky, Peter K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Emeritus Member.* (6R, 1917)

Oliver, Jean Redman, M.D. Buxton Rd., Chatham, N. J. *Distinguished Service Prof. Emeritus of Pathology, New York State Univ. Med. College.* (1, 1924; 4, 1924)

Oliver, Wade W., M.D. Rockefeller Foundation, New York City. *Assoc. Dir. of Div. of Med. Sciences.* (4R, 1925)

Olsen, Norman S., Ph.D. Masonic Med. Research Lab., Utica, N. Y. *Asst. Dir.* (1, 1948; 2, 1949)

Olson, Byron J., Ph.D., M.D. USPHS, Div. Foreign Quarantine, Dept. of Health, Education & Welfare, Washington 25, D. C. *Chief, Epidemiology and Immunization Branch.* (6, 1948)

Olson, Carl, Jr., D.V.M., Ph.D. Univ of Wisconsin, Dept. of Veterinary Sciences, Madison. (4, 1937)

Olson, James Allen, Ph.D. Univ. of Florida, J. Hillis Miller Health Ctr., Gainesville. *Asst. Prof. of Biochemistry,* (2, 1957)

Olson, Oscar E., Ph.D. 629 13th Ave., Brookings, S. D. *Head, Station Biochemistry, Agricultural Exper. Sta., S. D. State College.* (2, 1953)

Olson, Robert E., Ph.D., M.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Biochemistry and Nutrition, Pittsburgh 13, Pa. *Prof. and Head of Dept.* (2, 1951; 5, 1952)

Olson, Rodney A., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Physiologist.* (1, 1953)

Olson, William H., M.D. Indiana State Prison, P. O. Box 41, Michigan City. *Physician-in-Charge.* (1, 1951)

Omachi, Akira, Ph.D. Univ. of Illinois College of Medicine, Chicago 12. *Asst. Prof. of Physiology.* (1, 1955)

Oncley, J. L., D.Sc., Ph.D. Harvard Med. School, Boston 15, Mass. *Prof. of Biological Chemistry.* (2, 1955)

O'Neal, Robert M., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Asst. Prof. of Pathology.* (4, 1956)

Opdyke, David F., Ph.D. Seton Hall College of Medicine and Dentistry, Medical Ctr., Jersey City 4, N. J. *Prof. and Chairman, Dept. of Physiology.* (1, 1945)

Opie, Eugene L., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. (1R, 1906; 4R, 1913; 6R, 1923)

Oppenheimer, Enid Tribe. 1010 Fifth Ave., New York City 28. *Volunteer Research Worker, Inst. of Cancer Research, Columbia Univ.* (1, 1932)

Oppenheimer, Ernst, M.D. 199 Greenwood Way, Mill Valley, Calif. (3, 1944)

Oppenheimer, Morton Joseph, Ed.M., M.D. 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology, Temple Univ. School of Medicine.* (1, 1942)

Opsahl, Jeanette Clara, Ph.D., M.D. Peter Bent Brigham Hosp., Boston, Mass. (2, 1952)

Orbeli, L. A. Academy of Sciences of the USSR, Moscow, USSR. (1H, 1946)

Orbison, J. Lowell, M.D. Univ. of Rochester, Rochester 20, N. Y. *Prof. of Pathology.* (4, 1955)

Orcutt, James A., Ph.D. Los Angeles County Air

Pollution Control District, Los Angeles, Calif. (**3**, 1952)

Orkin, Louis R., M.D. Albert Einstein College of Medicine, Dept. of Anesthesiology, New York City 61. *Prof. and Chairman of Dept.* (**3**, 1955)

Orloff, Jack, M.D. Natl. Heart Inst., NIH, Bethesda, Md. *Deputy Chief, Lab. of Kidney and Electrolyte Metabolism, Physiology and Medicine.* (**1**, 1953)

Ormsby, Andrew A., Ph.D. Univ. of Texas Med. Branch, Dept. of Biochemistry and Nutrition, Galveston. *Prof. and Chairman of Dept.* (**2**, 1954)

Ortega, Paul, M.D. 6600 Lindenhurst Ave., Los Angeles, Calif. *Pathology Staff, Va Hosp.; Clin. Pathology Staff, UCLA Med. School.* (**4**, 1957)

Orten, Aline Underhill, Ph.D. Wayne State Univ. College of Medicine, Detroit 7, Mich. *Research Assoc., Dept. of Physiological Chemistry.* (**5**, 1946)

Orten, James M., Ph.D. Wayne State Univ. College of Medicine, Detroit 7, Mich. *Prof. of Physiological Chemistry.* (**2**, 1936; **5**, 1937)

Orth, O. Sidney, Ph.D., M.D. Univ. of Wisconsin, Dept. of Anesthesiology, University Hospitals, 1300 University Ave., Madison 6. *Prof. and Chairman of Dept.* (**1**, 1942; **3**, 1944)

Oser, Bernard L., Ph.D. Food and Drug Research Labs., Inc., Maurice Ave. at 58th St., Maspeth 78, New York City. *Director* (**5**, 1945)

Osler, Abraham G., Ph.D. Johns Hopkins Univ., Dept. of Microbiology, 615 N. Wolfe St., Baltimore, Md. *Assoc. Prof.* (**6**, 1949)

Oster, Robert H., Ph.D. Univ. of Maryland School of Dentistry, Baltimore. *Prof. of Physiology.* (**1**, 1938)

Osterberg, Arnold E., Ph.D. Abbott Labs., Med. Dept., N. Chicago, Ill. *Clinical Investigator.* (**2**, 1933)

Osterhout, Marian I., Ph.D. 450 East 63rd St., New York City. (**1**, 1927)

Osterhout, W. J. V., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**1**, 1910)

Otis, Arthur B., Ph.D. Univ. of Florida College of Medicine, Gainesville. *Prof. of Physiology and Chairman of Dept.* (**1**, 1946)

Ott, Walther H., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Dir. of Animal Husbandry.* (**5**, 1949)

Oudin, J., M. D. Institut Pasteur, 28 rue du Dr. Roux, Paris 15, France. *Head of Labs.* (**6**, 1954)

Ovary, Zoltan, M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Research Assoc., Dept. of Microbiology.* (**6**, 1957)

Overman, John R., M.D. Duke Univ. School of Medicine, Dept. of Bacteriology, Durham, N. C. *Assoc. Prof.* (**6**, 1954)

Overman, Richard R., Ph.D. Univ. of Tennessee College of Medicine, Divisions of Physiology and Medicine, Memphis. *Professor; Dir., Clin. Physiology, Inst. of Clin. Investigation.* (**1**, 1946)

Owen, Charles A., Jr., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant in Clinical Pathology.* (**1**, 1953; **4**, 1951)

Owen, Ray D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biology; Research Participant 1957-58, Biology Div., Oak Ridge Natl. Lab.* (**6**, 1955)

Owen, Seward E., Ph.D. 418 S. 20th Ave., Maywood, Ill. *Bacteriologist, Veterans Administration Hospital, Hines, Ill.* (**1**, 1938)

Owens, Albert H., Jr., M.D. Johns Hopkins School of Medicine, Baltimore 5, Md. *Instr. in Medicine.* (**3**, 1957)

Pace, Donald M., Ph.D. Univ. of Nebraska, Dept. of Physiology, Lincoln. *Prof. and Chairman of Dept.* (**1**, 1944)

Pace, Nello, Ph.D. Univ. of California, Berkeley 4. *Prof. of Physiology.* (**1**, 1947)

Pack, George T., M.D. 139 E. 36th St., New York City 16. *Prof. of Clinical Surgery, N. Y. Med. College; Attending Surgeon, Memorial Hospital.* (**1**, 1924)

Packchanian, Ardzroony, Ph.D. Univ. of Texas School of Medicine, Galveston. *Prof. of Bacteriology and Parasitology; Dir. of Lab. of Microbiology.* (**6**, 1943)

Page, Edouard, Ph.D. Univ. of Montreal, Faculty of Sciences, Montreal, Que., Canada. *Prof. and Head, Dept. of Biology.* (**1**, 1947)

Page, Ernest W., M.D. Univ. of California Hospital, Dept. of Obstetrics and Gynecology, San Francisco 22. *Professor.* (**1**, 1947)

Page, Irvine H., M.D. Cleveland Clinic Foundation, 2040 E. 93rd St., Cleveland 6, Ohio. *Dir. of Research.* (**1**, 1937; **2**, 1932)

Page, Robert G., M.D. Dept. of Medicine, Univ. of Chicago, Chicago 37, Ill. *Asst. Prof. of Medicine.* (**3**, 1951)

Painter-Marcus, Elizabeth E., Ph.D. 438 Longcommon Rd., Riverside, Ill. (**1**, 1941)

Pait, Charles F., M.D. Los Angeles City Health Dept., Los Angeles 12, Calif. *Dir. of Labs.* (**6**, 1953)

Palmer, James K., Ph.D. 326 North Boulevard, Richmond 20, Va. *Biochemist, Virginia Inst. for Scientific Research.* (**2**, 1957)

Palmer, John W., Ph.D. Hyland Labs., 4501 Colorado Blvd., Los Angeles 39, Calif. (**6**, 1949)

P'An, S. Y., M.D. Pfizer Therapeutic Inst., Maywood, N. J. *Mgr., Pharmacology Sec.* (**3**, 1941)

Pangborn, Mary C., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany, N. Y. *Assoc. Biochemist.* (**2**, 1941)

Panos, Theodore C., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Pediatrics.* (**4**, 1956)

Papageorge, Evangeline, Ph.D. 213 Woodruff

Mem. Bldg., Emory University, Georgia. (2, 1950)

Pappenheimer, A. M., Jr., Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Prof. and Chairman of Microbiology.* (2, 1941; 6, 1938)

Pappenheimer, John R., Ph.D. Harvard Med. School, Boston, Mass. *Prof. of Physiology; Career Investigator, Am. Heart Assn.* (1, 1946)

Papper, E. M., M.D. Presbyterian Hospital, 622 W. 168th St., New York City 32. *Dir., Anesthesiology Service; Prof. of Anesthesiology, Columbia Univ. College of Physicians and Surgeons.* (3, 1949)

Pardee, Arthur B., Ph.D. Univ. of California, Virus Lab., Berkeley 4. *Assoc. Prof.* (2, 1954)

Pardo, Efraín G., M.D. Universidad Nacional Autónoma de México, Escuela Nacional de Medicina, (Ciudad Universitaria), México D.F. *Prof. of Pharmacology.* (3, 1957)

Parfentjev, Ivan A., Sc.D. Jacob Ruppert Brewery, New York City 28. (6, 1955)

Park, Charles R., M.D. Vanderbilt Univ. School of Medicine, Dept. of Physiology, Nashville 5, Tenn. *Prof. and Head of Dept.* (1, 1955; 2, 1955)

Park, Edwards A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Prof. Emeritus of Pediatrics, Johns Hopkins Univ.* (4, 1923)

Park, James T., Ph.D. Molteno Inst., Cambridge Univ., Cambridge, England. (2, 1954)

Park, Jane Harting, Ph.D. Vanderbilt Univ. Med. School, Dept. of Physiology, Nashville, Tenn. *Asst. Prof.* (2, 1957)

Parker, Robert F., M.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland, Ohio. *Prof. of Microbiology; Assoc. Prof. of Medicine.* (4, 1942; 6, 1935)

Parkins, William M., Ph.D. Univ. of Pennsylvania School of Medicine, Harrison Dept. of Research Surgery, Philadelphia 4. *Assoc. Prof. of Surgical Research.* (1, 1939)

Parks, Robert E., Jr., Ph.D., M.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison. *Asst. Prof.* (3, 1956)

Parmer, Leo G., Ph.D., M.D. 61-34 188th St., Flushing 65, N. Y. (3, 1951)

Parpart, Arthur K., Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Prof. of Physiology.* (1, 1937)

Parr, Leland W., Ph.D. George Washington Univ. School of Medicine, 1335 H St. N.W., Washington, D. C. *Prof. of Bacteriology.* (4, 1940)

Parrack, Horace O., Ph.D. Wright-Patterson Air Force Base, Aero-Med. Lab., Dayton, Ohio. *Tech. Dir. and Coordinator, R&D Program AF Noise and Vibration Control.* (1, 1948)

Parrish, D. B., Ph.D. Kansas State College, Dept. of Chemistry, Manhattan. *Assoc. Prof.* (5, 1951)

Parsons, Helen T., Ph.D. Univ. of Wisconsin, Madison. *Emeritus Prof. of Home Economics.* (2R, 1929; 5R, 1933)

Parsons, Robert J., M.D. Highland Alameda County Hospital, 2701 14th Ave., Oakland, Calif. *Pathologist; Dir. of Labs.* (4, 1939)

Paschkis, Karl E., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof. of Medicine and Assoc. Prof. of Physiology.* (1, 1942)

Paterson, James C., M.D. Univ. of Western Ontario, Dept. of Med. Research, London, Canada. *Prof. and Head, Sec. Exptl. Pathology.* (4, 1957)

Paterson, Philip Y., M.D. New York Univ. College of Medicine, Dept. of Microbiology, New York City 16. (6, 1957)

Patrick, Homer, Ph.D. West Virginia Univ. College of Agriculture, Poultry Dept., Morgantown. *Dept. Head.* (5, 1953)

Patt, Harvey M., Ph.D. Argonne Natl. Lab., P.O. Box. 299, Lemont, Ill. *Sr. Physiologist.* (1, 1948)

Patterson, Elizabeth K., Ph.D. Inst. for Cancer Research, Fox Chase, Philadelphia 11, Pa. *Assoc. Member; Assoc. Member, Lankenau Hosp. Research Inst.* (2, 1957)

Patterson, Ernest L., Ph.D. Amer. Cyanamid Co., Research Div., Pearl River, N. Y. *Research Chemist.* (2, 1956)

Patterson, John L., Jr., M.D. Dept. of Medicine, Med. College of Virginia, Richmond 19. *Assoc. Prof. of Medicine.* (1, 1951)

Patterson, Thomas L., Ph.D., Sc.D. California Inst. of Technology, Kerckhoff Marine Lab., Corona Del Mar. *Visiting Research Investigator.* (1, 1920)

Patterson, Wilbur I., Ph.D. USDA Agric. Research Service, Eastern Utilization Research and Development Div., Washington 25, D. C. *Head, Dairy Products Sec.* (2, 1948)

Patton, H. D., Ph.D., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Prof.* (1, 1947)

Patton, Mary Brown, Ph.D. Ohio State Univ., School of Home Economics, Columbus 10. *Professor.* (5, 1953)

Paul, John R., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven 11, Conn. *Prof. of Preventive Medicine.* (4, 1927; 6, 1937)

Paul, Mary F., Ph.D. The Norwich Pharmacal Co., Norwich, N. Y. *Chief, Div. of Biology, The Norwich Pharmacal Co. and Eaton Labs.* (2, 1953)

Payne, Richard W., M.D. Univ. of Oklahoma School of Medicine, 801 Northeast 13th St., Oklahoma City. *Assoc. Prof. of Pharmacology.* (3, 1954)

Pazur, John H., Ph.D. Univ. of Nebraska, Dept.

of Biochemistry and Nutrition, Lincoln 3. *Assoc. Prof.* (2, 1954)

Peacock, Samuel M., Jr., M.D. Eastern Pennsylvania Psychiatric Inst., Philadelphia 29. *Sr. Med. Research Scientist.* (1, 1955)

Pearce, John Musser, M.D. 525 E. 68th St., New York City 21. *Prof. of Pathology, Cornell Univ. Med. College; Attending Pathologist, New York Hospital.* (4, 1942)

Pearce, Louise, M.D. Trevenna Farm, Belle Mead, N. J. (4, 1925)

Pearlman, William H., Ph.D. Waldemar Med. Research Fndn., Port Washington, L. I., N. Y. *Assoc. Scientific Dir.* (2, 1946)

Pearse, Herman E., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Surgery.* (4, 1932)

Pearson, Bjarne, M.D. Detroit Inst. of Cancer Research, 4811 John R St., Detroit, Mich. *Research Assoc.; Prof. Exptl. Pathology, Wayne State Univ.* (4, 1955)

Pearson, Harold E., M.D., M.P.H. Los Angeles County Hosp., Los Angeles, Calif. (6, 1948)

Pearson, Olof H., M.D. Memorial Hospital, 444 E. 68th St., New York City 21. *Assoc. Prof. of Medicine, Sloan-Kettering Div., Cornell Univ. Med. College.* (2, 1953)

Pearson, P. B., Ph.D. U. S. Atomic Energy Commission. Div. of Biology and Medicine, Washington 25, D. C. *Chief of Biology Branch.* (2, 1944; 5, 1940)

Pease, Marshall C., Jr., M.D. Branchville Rd., R.F.D. 4, Ridgefield, Conn. (6, 1920)

Peck, Harold M., M.D. Merck Inst. for Therapeutic Research, West Point, Pa. *Dir. of Pathology.* (3, 1953)

Pecora, Louis J., Ph.D. 1014 Broadway, Cincinnati, 30 Ohio. *Chief, Physiology Lab., PHS Occupational Health Program.* (1, 1952)

Peiss, Clarence N., Ph.D. Loyola Univ. Stritch School of Medicine, Dept. of Physiology, 706 S. Wolcott, Chicago, Ill. *Assoc. Prof.* (1, 1952)

Pelikan, Edward W., M.D. Boston Univ. School of Medicine, Boston 18, Mass. *Assoc. Prof. of Pharmacology.* (3, 1952)

Penfield, Wilder G., M.D., D.Sc. McGill Univ., Montreal, Quebec, Canada. *Dir., Montreal Neurological Inst.* (1, 1932)

Penick, George D., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Assoc. Prof. of Pathology.* (4, 1955)

Penneys, Raymond, M.D. Univ. of Pennsylvania Hospital, Peripheral Vascular Sec., Philadelphia 4. *Instr. in Medicine, Univ. of Pennsylvania School of Medicine.* (1, 1951)

Penrod, Kenneth E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Physiology.* (1, 1946)

Peoples, S. Anderson, M.D. Univ. of California, School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Prof. of Pharmacology and Toxicology.* (3, 1937)

Perkins, John F., Jr., M.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Assoc. Prof.* (1, 1950)

Perkinson, Jesse Dean, Jr., Ph.D. Atomic Energy Comm., Education and Training Branch, DIA, Washington 25, D. C. *Chief.* (2, 1954)

Perl, Edward R., M.D. Univ. of Utah College of Medicine, Dept. of Physiology, Salt Lake City 12. *Assoc.. Prof.* (1, 1955)

Perlman, Ely, M.D. 118 Crescent Lane, Roslyn Heights, L. I., N. Y. *Research Assoc., Mt. Sinai Hosp.; Chief, Allergy Clinic, L. I. Jewish Hosp.* (6, 1944)

Perlman, Preston L., Ph.D. Schering Corp., Bloomfield, N. J. *Manager, Biochemistry Dept.* (1, 1956; 3, 1956)

Perlmann, Gertrude Erika, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Asst. Prof.* (2, 1951)

Perlmutt, Joseph H., Ph.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Asst. Prof.* (1, 1955)

Permar, Howard H., M.D. Pathologic Labs., Mercy Hospital, Pittsburgh, Pa. *Pathologist.* (4, 1925)

Peskin, James C., Ph.D. Univ. of Rochester, Biology Dept., Rochester, N. Y. *Assoc. Prof.* (1, 1955)

Petermann, Mary L., Ph.D. 410 E. 68th St., New York City 21. *Assoc. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (2, 1947)

Peters, Lawrence, Ph.D., M.D. Univ. of Kansas Med. School, Dept. of Pharmacology, Kansas City 12. *Prof. and Head of Dept.* (3, 1946)

Petersen, Donald F., Ph.D. Univ. of California, Los Alamos Scientific Lab., P.O. Box 1663, Los Alamos, N. M. *Staff Member.* (3, 1956)

Petersen, William E., Ph.D. Univ. of Minnesota Div. of Dairy Husbandry, St. Paul 1. *Professor.* (1, 1947)

Peterson, Daniel W., Ph.D. Univ. of California. Dept. of Poultry Husbandry, Davis. *Asst. Prof.; Asst. Biochemist in Exper. Station.* (3, 1957)

Peterson, Elbert A., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chemist.* (2, 1954)

Peterson, Lysle H., M.D. Univ. of Pennsylvania Med. School, Dept. of Physiology, Philadelphia 4. *Assoc. Prof. of Physiology and Surg. Physiology; Established Investigator, Am. Heart Assn.* (1, 1950)

Peterson, Ruth D., Ph.D. Univ. of Oregon Med. School, Biochemistry Dept., Portland 1. *Asst. Prof.* (2, 1955)

Peterson, William H., Ph.D. Univ. of Wisconsin,

Biochemistry Bldg., Madison. *Prof. Emeritus of Biochemistry.* (**2R**, 1919; **5R**, 1936)

Pett, L. B., M.D., Ph.D. Dept. of Natl. Health and Welfare, Ottawa, Ontario, Canada. *Chief, Nutrition Div.* (**5**, 1945)

Pfaffmann, Carl, Ph.D. Brown Univ., Providence 12, R. I. *Prof. of Psychology.* (**1**, 1953)

Pfeiffer, Carl C., Ph.D., M.D. Div. of Basic Health Sciences, Emory Univ. School of Medicine, Emory University, Ga. *Prof. of Pharmacology and Dir. of Division.* (**3**, 1938)

Pfiffner, Joseph J., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Biochemist (Research).* (**1**, 1931; **2**, 1931; **5**, 1946)

Phatak, Nilkanth M., Ph.D. Univ. of Oregon, School of Dentistry, Portland. *Prof. and Head of Dept. of Pharmacology.* (**3**, 1941)

Philips, Frederick S., Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 E. 68th Street, New York City 21. *Member.* (**3**, 1947)

Phillips, Paul H., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2**, 1940; **5**, 1938)

Phillips, Robert Allan, M.D. U. S. Naval Med. Research Unit #2, APO 63, San Francisco, Calif. *Commanding Officer.* (**1**, 1938)

Philpot, Van Buren, Jr., M.D. Univ. of Wisconsin School of Medicine, Madison 6. *Resident in Pathology.* (**4**, 1957)

Pick, Ernst Peter, M.D. 19 E. 98th St., New York City 29. (**3**, 1940)

Pick, Ruth, M.D. Michael Reese Hosp., Med. Research Inst., Chicago 16, Ill. *Research Assoc., Cardiovascular Dept.* (**1**, 1954)

Piel, Carolyn Forman, M.D. 2574 Green St., San Francisco 23, Calif. (**4**, 1950)

Pierce, Harold B., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Biochemistry.* (**2**, 1929; **5**, 1933)

Pierce, Harold Fisher, Ph.D., M.D. 583 Park Rd., West Hartford 7, Conn. *Chief Med. Consultant, State Welfare Dept., Hartford.* (**1**, 1928)

Pierce, Ira H., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3R**, 1933)

Pierce, John G., Ph.D. Univ. of California Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Assoc. Prof.* (**2**, 1954)

Pigman, Ward, Ph.D. Univ. of Alabama, Med.-Dental Schools, Biochemistry Dept., Birmingham. *Assoc. Prof.* (**2**, 1950)

Pike, Ruth L., Ph.D. Pennsylvania State Univ., University Park. *Assoc. Prof. of Foods and Nutrition.* (**5**, 1957)

Pilgeram, Laurence O., Ph.D. Stanford Univ., Dept. of Chemistry, Stanford, Calif. *Asst. Prof. of Biochemistry.* (**2**, 1957)

Piliero, Sam Joseph, Ph.D. New York Med. College-Flower and Fifth Ave. Hosps., New York City. *Assoc. Prof. of Anatomy.* (**1**, 1956)

Pincus, Gregory, Sc.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. *Research Dir.* (**1**, 1935)

Pincus, I. J., M.D., D.Sc. Woman's Med. College, Philadelphia, Pa. *Lecturer in Physiology.* (**1**, 1948)

Pinkerton, Henry, M.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Dir., Dept. of Pathology.* (**4**, 1931)

Pinkston, James O., Ph.D. State Univ. Med. Center at New York City, College of Medicine, Brooklyn. *Asst. Dean and Prof. of Physiology.* (**1**, 1936; **3**, 1939)

Pinson, Ernest A., Ph.D. 1109 Quincy St. S. E., Albuquerque, N. Mex. (**1**, 1943)

Pirani, Conrad L., M.D. Univ. of Illinois, College of Medicine, Dept. of Pathology, 1853 W. Polk St., Chicago 12. *Professor.* (**4**, 1951)

Pisanty O., José, M.D. Univ. of Guadalajara, Dept. of Physiology and Pharmacology, Guadalajara, Jalisco, Mexico. *Head of Dept.* (**1**, 1955)

Pittinger, Charles B., M.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Anesthesiology and Pharmacology.* (**3**, 1954)

Pittman, Margaret, Ph.D. Natl. Insts. of Health, Div. of Biologics Standards, Bethesda 14, Md. *Prin. Bacteriologist; Chief, Haemophilus Study Sec.* (**6**, 1957)

Pittman, Martha S., Ph.D. 1909 Poyntz, Manhattan, Kan. (**5R**, 1933)

Pitts, Grover C., Ph.D. Univ. of Virginia, School of Medicine, Dept. of Physiology, Charlottesville. *Asst. Prof.* (**1**, 1951)

Pitts, Robert F., Ph.D., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. and Head of Dept. of Physiology and Biophysics.* (**1**, 1934)

Platner, Wesley S., Ph.D. Univ. of Missouri School of Medicine, Columbia. *Prof. of Physiology.* (**1**, 1951)

Plaut, Gerhard W. E., Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof.* (**2**, 1952)

Plescia, Otto J., Ph.D. Rutgers Univ. Inst. of Microbiology, New Brunswick, N. J. *Assoc. Prof. of Immunochemistry.* (**6**, 1956)

Plummer, Albert J., M.D., Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir., Pharmacological Research; Lecturer in Pharmacology, Boston Univ. School of Medicine.* (**3**, 1950)

Polglase, William J., Ph.D. Univ. of British Columbia, Vancouver 8, Canada. *Assoc. Prof. of Biochemistry.* (**2**, 1957)

Pollack, Abou D. Baltimore City Hosps., Dept. of Pathology, Johns Hopkins Univ. Med. School, Baltimore, Md. (**4**, 1953)

Pollack, Herbert, Ph.D., M.D. 70 E. 77th St., New York City 21. *Assoc. Physician for Meta-*

bolic Diseases, Mt. Sinai Hosp.; Assoc. Prof. of Clin. Medicine, New York Univ. Post-Grad. School of Medicine. (1, 1933; 5, 1935)

Pollak, Otakar J., M.D., Ph.D. Kent General Hosp., Dover, Del. *Asst. Prof. of Pathology, Hahnemann Med. College.* (4, 1957)

Pollard, Morris, D.V.M., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Preventive Medicine; Dir., Virus Research Lab.* (4, 1954)

Pomerat, Charles Marc, Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Cytology.* (1, 1944)

Pommerenke, W. T., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Obstetrics and Gynecology.* (1, 1947)

Pond, Samuel E., Ph.D. Hillyer College, Div. of Natural Sciences and Mathematics, Hartford, Conn. *Chairman.* (1R, 1924)

Ponder, Eric, M.D., Sc.D. Nassau Hospital, Mineola, Long Island, N. Y. *Dir., Research Labs.* (1, 1931)

Pope, Alfred, M.D. McLean Hospital, Waverley 79, Mass. *Neuropathologist; Assoc. Prof. of Neuropathology, Harvard Med. School.* (2, 1953)

Popenoe, Edwin A., Ph.D. Brookhaven Natl. Lab., Med. Dept., Upton, N. Y. *Assoc. Biochemist.* (2, 1956)

Poppen, John R., M.D. 9000 Amestoy Ave., Northridge, Calif. *Capt. (MC) USN Retired; Consultant.* (1, 1948)

Popper, Hans, Ph.D., M.D. Mt. Sinai Hosp., Dept. of Pathology, New York City 29. *Dir. of Dept.* (4, 1942)

Porter, Curt C., Ph.D. Merck Inst. for Therapeutic Research, West Point, Pa. *Research Assoc.* (2, 1954)

Porter, Eugene L., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Physiology.* (1, 1913)

Porter, J. R., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology, Chairman of Dept.* (6, 1950)

Porter, John W., Ph.D. VA Hosp., Radioisotope Service, Madison, Wis. *Asst. Dir.; Assoc. Prof., Univ. of Wisconsin.* (2, 1953)

Porter, Robert W., M.D., Ph.D. Walter Reed Army Inst. of Research, WRAMC, Washington 12, D. C. *Neurophysiologist.* (1, 1957)

Porter, Thelma, Ph.D. Michigan State Univ., East Lansing. *Dean, College of Home Economics.* (5, 1944)

Post, Robert Lickely, M.D. 6310 Vanderbilt Med. School, Nashville 5, Tenn. *Asst. Prof. of Physiology.* (1, 1950)

Posternak, Jean M., M.D. Univ. of Geneva Med. School, Geneva, Switzerland. *Prof. of Physiology.* (1, 1951)

Poth, Edgar J., M.D., Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Surgery.* (1, 1946)

Potter, Van R., Ph.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison. *Prof. of Oncology.* (2, 1941)

Powell, Horace M., Sc.D. 5565 Washington Blvd., Indianapolis, Ind. *Research Advisor, Eli Lilly & Co.* (6, 1934)

Power, Marschelle H., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (2, 1922)

Pratt, Frederick H., M.D. 105 Hundreds Rd., Wellesley Hills, Mass. *Prof. Emeritus of Physiology, Boston Univ. Med. School.* (1R, 1919)

Prehn, Richmond T., M.D. U.S.P.H.S. Hospital, Seattle, Wash. *Pathologist.* (4, 1956)

Preisler, Paul W., Ph.D., LL.B. Washington Univ. School of Medicine, 660 S. Kingshighway Blvd., St. Louis 10, Mo. *Research Assoc., Biochemistry.* (2, 1931)

Pressman, David, Ph.D. Roswell Park Memorial Inst., Buffalo 3, N. Y. *Dir. of Research in Biochemistry; Research Prof. of Chemistry, Roswell Park Div., Univ. of Buffalo.* (2, 1955; 6, 1949)

Preston, James B., M.D. State Univ. of New York College of Medicine, Dept. of Physiology, Syracuse 10. *Asst. Prof.* (3, 1956)

Pribor, Hugo C., M.D., Ph.D. Natl. Insts. of Health, Clin. Ctr., Bethesda 14, Md. *Resident in Pathology.* (4, 1957)

Pribram, Karl H., M.D. Inst. of Living, Research Labs., Hartford, Conn. *Dir. of Research and Labs.; Lecturer, Yale Univ., Dept. of Physiology and Psychology.* (1, 1951)

Price, Henry L., M.D. Univ. of Pennsylvania, Dept. of Anesthesiology, Philadelphia 4. *Assoc. Prof.* (1, 1955; 3, 1954)

Price, J. M., M.D., Ph.D. Cancer Research Hosp., Madison 6, Wis. *Assoc. Prof., Surgery, Univ. of Wisconsin Med. School.* (2, 1956)

Price, Vincent E., M.D. 4615 Edgefield Rd., Bethesda 14, Md. *Head, Enzymes and Metabolism Sec., Lab. of Biochemistry, Natl. Cancer Inst.* (2, 1953)

Prinzmetal, Myron, M.D. 810 N. Rexford Dr., Beverly Hills, Calif. *Sr. Attending Physician and Dir. of Cardiac Research Program, Cedars of Lebanon Hospital, Los Angeles; Prof. of Clin. Medicine, UCLA.* (3, 1941)

Procita, Leonard, Ph.D. State Univ. of New York College of Medicine, Brooklyn 3. *Asst. Prof. of Pharmacology.* (3, 1957)

Proctor, Charles D., Ph.D. Loyola Univ., Stritch School of Medicine, Chicago 12, Ill. *Assoc. Prof. of Pharmacology and Therapeutics.* (3, 1957)

Proctor, Donald F., M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof., Physiology, Otology and Laryngology. Anesthesiology.* (1, 1955)

Prosser, C. Ladd, Ph.D. Univ. of Illinois, Dept. of Physiology, Urbana. *Professor.* (1, 1935)

Prusoff, William H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Asst. Prof., Pharmacology.* **(2,** 1956)

Puck, Theodore T., Ph.D. Univ. of Colorado Med. School, Dept. of Biophysics, Denver. *Prof. and Head of Dept.* **(6,** 1955)

Puestow, Charles B., M.D., Ph.D. 25 E. Washington St., Chicago 2, Ill. *Clin. Prof. of Surgery, Univ. of Illinois College of Medicine.* **(1,** 1934)

Pugsley, L. I., Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Lab., Ottawa, Ontario, Canada. *Asst. Dir., Scientific Services.* **(2,** 1937)

Pullman, Theodore N., M.D. Univ. of Chicago, Chicago 37, Ill. *Assoc. Prof. of Medicine.* **(1,** 1956)

Purpura, Dominick P., M.D. Neurological Inst., 195 Ft. Washington Ave., New York City. *Asst. Prof., Neurological Surgery (Research), College of Physicians and Surgeons, Columbia Univ.* **(1,** 1957)

Putnam, Frank W., Ph.D. Univ. of Florida College of Medicine, Dept. of Biochemistry, Gainesville, Fla. *Prof. and Chairman.* **(2,** 1947)

Quackenbush, Forrest W., Ph.D. R-2, Brookston, Ind. *Prof. and Head of Dept. of Biochemistry, Purdue Univ.* **(2,** 1946)

Quaife, Mary L., Ph.D. Harvard Univ. School of Public Health, 1 Shattuck St., Boston, Mass. *Assoc. in Nutrition.* **(2,** 1948; **5,** 1951)

Quastel, J. H., D.Sc., Ph.D. McGill-Montreal Gen. Hosp. Research Inst., Montreal, Quebec, Canada. *Dir., Research Inst.; Prof. of Biochemistry, McGill Univ.* **(2,** 1948)

Queen, Frank B., M.D. Univ. of Oregon School of Medicine, 3181 S.W. Sam Jackson Park Rd., Portland. *Prof. of Pathology.* **(4,** 1941)

Quick, Armand J., M.D., Ph.D. Marquette Med. School, 561 N. 15th St., Milwaukee 3, Wis. *Prof. and Dir. of Dept. of Biochemistry.* **(2,** 1932; **3,** 1937)

Quigley, J. P., Ph.D. Univ. of Tennessee, Memphis 3. *Prof. and Chief of Div. of Physiology.* **(1,** 1929; **3,** 1945)

Quilligan, J. J., Jr., M.D. College of Med. Evangelists, 1200 N. State St., Los Angeles 33, Calif. *Assoc. Prof. of Pediatrics; Dir. of Virus Lab.* **(6,** 1950)

Quimby, Freeman Henry, Ph.D. Office of Naval Research, Branch Office, 1000 Geary St., San Francisco 9, Calif. *Chief Scientist.* **(1,** 1950)

Quinn, Edmond John, Ph.D. 106 N. Lee Ave., Rockville Center, Long Island, N. Y. (**2R,** 1927; **5R,** 1933).

Raab, Wilhelm, M.D. Resselstrasse 37, Innsbruck, Austria. **(1,** 1949)

Raben, Maurice S., M.D. Tufts Univ. Med. School, Boston, Mass. *Asst. Prof. of Medicine; Physician, New England Ctr. Hosp.* **(1,** 1955)

Rabinovitz, Marco, Ph.D. Univ. of California School of Medicine, Dept. of Physiological Chemistry, Berkeley 4. *Asst. Research Biochemist.* **(2,** 1955)

Rabinowitz, Jesse C., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Biochemist.* **(2,** 1954)

Rabinowitz, Joseph L., Ph.D. Methodist Hosp., Texas Med. Ctr., Houston 25. *Assoc. Prof. of Biochemistry, Baylor Univ. College of Medicine.* **(2,** 1957)

Rachele, Julian R., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* **(2,** 1948)

Rackemann, Francis Minot, M.D. 263 Beacon St., Boston, Mass. *Bd. of Consultation, Massachusetts General Hospital.* **(6,** 1923)

Racker, Efraim, M.D. Public Health Research Inst., New York City 9. *Chief, Div. of Nutrition and Physiology.* **(2,** 1948)

Radford, Edward P., Jr., M.D. Haskell Lab., E. I. duPont de Nemours and Co., Newark, Del. *Physiologist; Lecturer in Physiology, Univ. of Pennsylvania Grad. School of Medicine.* **(1,** 1956)

Radin, Norman S., Ph.D. Northwestern Univ. Med. School, Dept. of Biochemistry, Chicago 11, Ill *Asst. Prof.* **(2,** 1957)

Radomski, Jack L., Ph.D. School of Medicine, Univ. of Miami, Coral Gables 34, Fla. *Assoc. Prof. of Pharmacology.* **(3,** 1953)

Rafelson, Max E., Jr., Ph.D. Univ. of Illinois College of Medicine, Dept. of Biological Chemistry, Chicago 12, Ill. *Assoc. Prof.* **(2,** 1955)

Raffel, Sidney, Sc.D., M.D. Stanford Univ., Dept. of Med. Microbiology, Stanford, Calif. *Exec. Head.* **(6,** 1938)

Ragan, Charles, M.D. Columbia Univ., College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Clin. Medicine.* **(1,** 1952)

Rahn, Hermann, Ph.D. Univ. of Buffalo Med. School, Buffalo, N. Y. *Prof. and Head of Physiology.* **(1,** 1944)

Rake, Geoffrey W., M.B. Univ. of Pennsylvania, Wistar Inst. of Anatomy and Biology, Philadelphia 4. *Research Prof. of Microbiology in Medicine.* **(6,** 1939)

Rakestraw, Norris W., Ph.D. Univ. of California, Scripps Inst. of Oceanography, La Jolla. *Prof. of Chemistry.* **(2,** 1925)

Rakieten, Nathan, Ph.D. South Shore Analytical and Research Lab., Box 47, Islip, L. I., N. Y. *Pharmacologist.* **(1,** 1941)

Rall, David P., M.D., Ph.D. Natl. Cancer Inst., Clinical Pharmacology and Exptl. Therapeutics Sec., NIH, Bethesda 14, Md. *Pharmacologist.* **(3,** 1956)

Rall, J. E., M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Chief, Endocrinology Br.* **(1,** 1955)

Rall, Wilfrid, Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Acting Head, Biophysics Div.* (1, 1957)

Ralli, Elaine P., M.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (1, 1934; 5, 1933)

Ralston, H. J., Ph.D. College of Physicians and Surgeons, 344 14th St., San Francisco 3, Calif. *Prof. of Physiology.* (1, 1947)

Ramey, Estelle R., Ph.D. Georgetown Univ. School of Medicine, Dept. of Physiology, Washington 7, D. C. *Asst. Prof.* (1, 1954)

Rammelkamp, Charles H., Jr., M.D. Western Reserve Univ., Dept. of Preventive Medicine, Cleveland, Ohio. *Prof. of Medicine; Assoc. Prof. of Preventive Medicine.* (6, 1943)

Ramsey, Robert Weberg, Ph.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (1, 1939)

Randall, Charles C., M.D. Univ. of Mississippi School of Medicine, Dept. of Microbiology, Jackson. *Prof. and Head of Dept.* (4, 1952)

Randall, James Edwin, Ph.D. Univ. of Missouri Med. Ctr., Columbia. *Asst. Prof. of Physiology and Biophysics.* (1, 1956)

Randall, Lowell O., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Sr. Pharmacologist.* (2, 1939; 3, 1950)

Randall, Walter C., Ph.D. Dept. of Physiology, Loyola Univ., Stritch School of Medicine, Chicago 12, Ill. (1, 1943)

Rane, Leo, Ph.D. 571 Hammond St., Chestnut Hill 67, Mass. (6, 1942)

Ranney, Robert E., Ph.D. G. D. Searle & Co., Div. of Biological Research, Chicago 80, Ill. *Physiologist.* (1, 1955)

Rantz, Lowell A., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Professor of Medicine.* (3, 1946)

Rapoport, S. Humboldt Univ., Berlin N. 4, Germany. *Director.* (2, 1941)

Rapport, David, M.D. 136 Harrison Ave., Boston, Mass. *Prof. of Physiology, Tufts University School of Medicine.* (1, 1922)

Rapport, Maurice M., Ph.D. Sloan-Kettering Inst. for Cancer Research, N. Y. State Dept. of Health, 444 E. 68th St., New York City 21. *Head, Sec. of Immunology; Assoc. Research Scientist.* (2, 1950)

Rashkind, William J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Cardiologist, Children's Hosp.* (1, 1952)

Raska, Sigwin, Ph.D. Columbus Hosp., Chicago 14, Ill. (1, 1947)

Rasmussen, A. F., Jr. Ph.D., M.D. Univ. of California at Los Angeles, Med. School, Los Angeles 24. *Prof. of Infectious Diseases (Virology).* (6, 1949)

Ratcliffe, Herbert L., D.Sc. Univ. of Pennsylvania, Dept. of Pathology, Philadelphia 4. *Prof. of Comparative Pathology; Pathologist, Zoological Society of Philadelphia.* (4, 1950)

Rather, Lelland J., M.D. Stanford Univ. School of Medicine, Dept. of Pathology, 2398 Sacramento St., San Francisco, Calif. *Professor.* (4, 1951)

Ratner, Sarah, Ph.D. Public Health Research Inst. of the City of New York, Foot of E. 15th St., New York City 9. *Member, Div. of Nutrition and Physiology.* (2, 1944)

Rau, G. Carl, Ph.D. Michael Reese Hosp., Dept. of Gastro-Intestinal Research, Chicago, Ill. *Asst. Dir.* (1, 1951)

Raulston, B. O., M.D. 538 So. Flower St., Los Angeles 17, Calif. *Prof. of Medicine and Dean Emeritus, Univ. of Southern California School of Medicine.* (3R, 1942)

Ravdin, I. S., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *John Rhea Barton Prof. of Surgery; Dir., Harrison Dept. of Surgical Research.* (1, 1930, 4, 1930)

Ravel, Joanne M., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Research Scientist, Biochemical Inst.* (2, 1957)

Rawson, Rulon W., M.D. Sloan-Kettering Inst., New York City 21. *Member; Prof. of Medicine, Cornell Univ. Med. College.* (1, 1947)

Raymond, Albert L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Vice Pres. in charge of Research and Development.* (2, 1932)

Raynaud, Marcel, M.D. Institut Pasteur, Boulevard Raymond Poincaré, Garches (S & O), France. *Chef de Service.* (6, 1957)

Read, Willard O., Ph.D. Univ. of South Dakota Med. School, Vermillion. *Assoc. Prof. of Physiology.* (1, 1956)

Reback, John F., M.S., Sc.D. Microbiology Lab., Sinai Hosp., Baltimore 5, Md. *Microbiologist, Johns Hopkins Univ. School of Hygiene and Public Health.* (6, 1943)

Rebuck, John W., M.D., Ph.D. Henry Ford Hospital, Dept. of Labs., Detroit 2, Mich. *Assoc. in Pathology.* (4, 1950)

Redfield, Alfred C., Ph.D. Woods Hole, Mass. *Prof. of Physiology, Emeritus, Harvard Univ.; Sr. Oceanographer Emeritus, Woods Hole Oceanographic Inst.* (1R, 1919)

Redisch, Walter, M.D. New York Univ., Research Service, Goldwater Memorial Hosp., Welfare Island, New York City 17. *Assoc. Prof., Clin. Medicine.* (1, 1956)

Reed, Carlos I., Ph.D. Guilford College, N. C. *Prof. of Physiology Emeritus, Univ. of Illinois.* (1R, 1923)

Reed, Emerson A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Assoc. Prof. of Physiology.* (1, 1948)

Reed, Lester J., Ph.D. Univ. of Texas, Austin 12. *Assoc. Prof. of Chemistry.* **(2,** 1952)

Reese, John D., VA Hosp., Columbia, S. C. *Pathologist.* **(4,** 1949)

Reeves, Richard E., Ph.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Assoc. Prof. of Biochemistry.* **(2,** 1956)

Rehm, Warren S., Jr., Ph.D., M.D. Univ. of Louisville School of Medicine, Louisville, Ky. *Prof. of Physiology.* **(1,** 1945)

Reich, Hans, Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Research Assoc.* **(2,** 1955)

Reid, Allen Francis, Ph.D. Univ. of Texas Southwestern Med. School, Dept. of Biophysics, Dallas 19. *Prof. and Chairman of Dept.* **(1,** 1957)

Reid, James C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chemist.* **(2,** 1952)

Reid, Marion Adelaide, Ph.D. Rutgers Univ., Douglass College, New Brunswick, N. J. *Assoc. Prof., Dept. of Zoology.* **(1,** 1941)

Reid, Mary E., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Biologist.* **(5,** 1947)

Reilly, Joseph, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Pharmacology.* **(3,** 1952)

Reimann, Hobart A., M.D. 125 Old Gulph Rd., Wynnewood, Pa. **(4,** 1933)

Reimann, Stanley P., M.D., Sc.D. 703 W. Phil-Ellena St., Mount Airy, Philadelphia 19, Pa. *Emeritus Dir., Lankenau Hosp. Research Inst. and Inst. for Cancer Research.* **(1,** 1921; **4,** 1924)

Reinecke, Roger M., Ph.D., M.D. Univ. of Puerto Rico, School of Medicine, San Juan. *Prof. of Physiology; Head of Dept. of Physiology.* **(1,** 1947)

Reineke, E. P., Ph.D. Michigan State Univ., Dept. of Physiology and Pharmacology, East Lansing. *Professor.* **(1,** 1950)

Reiner, John M., Ph.D. Simon Baruch Research Labs., Saratoga Spa, Saratoga Springs, N. Y. *Research Dir.* **(1,** 1947)

Reinhard, John F., Ph.D. Wallace and Tiernan, Inc., Belleville, N. J. *Head, Dept. of Pharmacology.* **(3,** 1952)

Reinhardt, William O., M.D. Univ. of California, Berkeley 4. *Prof. of Anatomy.* **(1,** 1950)

Reinhold, John G., Ph.D. Univ. of Pennsylvania Hospital, 711 Maloney Bldg., 36th and Spruce Sts., Philadelphia 4, Pa. *Prof. of Clin. Chemistry in Medicine.* (2, 1936)

Reiser, Raymond, Ph.D. Texas Agricultural Exper. Station, Dept. of Biochemistry and Nutrition, College Station. *Professor, A & M College of Texas.* **(2,** 1953)

Reisner, Edward H., M.D. 401 W. 118th St., New York City 27. *Asst. Attending Physician, St. Luke's Hosp.* **(5,** 1954)

Reissig, Magdalena, M.D. Yale Univ. School of Medicine, New Haven, Conn. *Research Assoc., Sec. of Preventive Medicine.* **(6,** 1957)

Reissmann, Kurt R., M.D. Univ. of Kansas Med. School, Kansas City 12. *Assoc. Prof. of Medicine; Chief, Section of Exptl. Medicine.* **(1,** 1956)

Reithel, Francis J., Ph.D. Univ. of Oregon, Dept. of Chemistry, Eugene. *Prof. of Chemistry.* **(2,** 1953)

Rekers, Paul E., M.D. Inst. for Med. Research, Cedars of Lebanon Hosp. Los Angeles 27, Calif. *Research Assoc.* **(4,** 1950)

Relman, Arnold S., M.D. Boston Univ. School of Medicine, Boston, Mass. *Assoc. Prof. of Medicine.* **(1,** 1957)

Remington, John W., Ph.D. Med. College of Georgia, Dept. of Physiology, Augusta. *Professor.* **(1,** 1943)

Remington, Roe E., Ph.D., D.Sc. 1227 Highland Ave., Hendersonville, N. C. **(2R,** 1930; **5R,** 1934)

Renfrew, Alice G., Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Fundamental Research.* **(2,** 1939)

Renkin, Eugene M., Ph.D. George Washington Univ. Med. School, Washington 5, D. C. *Asst. Prof. of Physiology.* **(1,** 1954)

Rennick, Barbara R., M.D. State Univ. of New York, Upstate Med. Ctr., Syracuse 10. *Asst. Prof. of Physiology.* **(3,** 1952)

Renold, Albert E., M.D. 185 Pilgrim Rd., Boston 15, Mass. *Assoc. in Medicine, Harvard Med. School.* **(1,** 1957)

Ressler, Charlotte, Ph.D. Cornell Univ. Med. College, New York City 21. *Asst. Prof. of Biochemistry.* **(2,** 1957)

Reynolds, May S., Ph.D. Univ. of Wisconsin, School of Home Economics, Dept. of Foods and Nutrition, Madison. *Prof.* **(5,** 1951)

Reynolds, Monica, Ph.D. Univ. of Pennsylvania School of Veterinary Medicine, Philadelphia 4. *Asst. Prof. of Physiology.* **(1,** 1954)

Reynolds, Orr E., Ph.D. Office of Secretary of Defense, Washington 25, D. C. *Dir., Office of Science; Asst. Sec. of Defense for Research and Engineering.* **(1,** 1948)

Reynolds, Samuel R. M., Ph.D., Sc.D. Univ. of Illinois College of Medicine, Dept. of Anatomy, Chicago 15. *Prof. and Head of Dept.* **(1,** 1932)

Reznikoff, Paul, M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Clin. Medicine, Cornell Univ. Med. College.* **(1,** 1927)

Rhines, Ruth, Ph.D., M.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. *Assoc. Prof.* **(1,** 1950)

Rhoads, Cornelius Packard, M.D. Sloan-Kettering Inst. for Cancer Research, New York City 21. *Director; Scientific Dir., Memorial Ctr. for Cancer and Allied Diseases; Prof. of Pathology,*

Sloan-Kettering Div., Cornell Univ. Med. College. (**4,** 1930)

Rhoads, Jonathan E., M.D., D.Sc. 131 W. Walnut Lane, Philadelphia 44, Pa. *Prof. of Surgery, Univ. of Pa. Med. School; Provost, Univ. of Pa.* (**1,** 1946)

Rice, Christine E., Ph.D. Animal Diseases Research Inst., Canadian Dept. of Agriculture, Hull, Quebec, Canada. *Agricultural Research Officer.* (**6,** 1938)

Rice, Eldon E., Ph.D. 9152 West 124th St., Palos Park, Ill. *Research Chemist, Swift and Co.* (**5,** 1951)

Rice, Harold V., Ph.D. St. Paul's Hosp., Vancouver, B. C. (**1,** 1948)

Rice, James C., Ph.D. Univ. of Mississippi Med. Ctr., Jackson. *Prof. of Pharmacology; Chairman of Dept.* (**3,** 1941)

Rich, Arnold Rice, M.D. Johns Hopkins Hospital, Baltimore, Md. *Baxley Prof. of Pathology, Johns Hopkins Univ.* (**4,** 1924)

Richards, Alfred N., Ph.D., Sc.D. 737 Rugby Rd., Bryn Mawr, Pa. *Prof. Emeritus of Pharmacology, Univ. of Pennsylvania.* (**1R,** 1900; **2R,** 1906; **3R,** 1909)

Richards, Dickinson W., M.D. First Med. Div., Bellevue Hospital, 462 First Ave., New York City 16. *Dir. and Visiting Physician; Lambert Prof. of Medicine, Columbia Univ.* (**1,** 1953)

Richards, Frederic M., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Asst. Prof. of Biochemistry.* (**2,** 1957)

Richards, Oscar W., Ph.D. American Optical Co., Research Center, Southbridge, Mass. *Research Supervisor for Biology.* (**1,** 1934)

Richards, R. K., M.D. Abbott Labs., Research Div., North Chicago, Ill. *Dir. of Exptl. Therapy; Professorial Lecturer in Pharmacology, Northwestern Univ. Med. School.* (**1,** 1938; **3,** 1947)

Richardson, Alfred W., Ph.D. St. Louis Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1952)

Richardson, Arthur P., M.D. Emory Univ. School of Medicine, Emory University, Ga. *Dean, School of Medicine; Prof. of Pharmacology.* (**3,** 1939)

Richardson, James A., Ph.D. Med. College of South Carolina, Dept. of Pharmacology, Charleston 16. *Assoc. Prof.* (**3,** 1951)

Richardson, Luther R., Ph.D. Texas A & M College, College Station. *Prof. of Biochemistry and Nutrition.* (**5,** 1942)

Richert, Dan A., Ph.D. State Univ. of New York, Upstate Med. Ctr., Dept. of Biochemistry, 766 Irving Ave., Syracuse 10, N. Y. *Assoc. Prof.* (**2,** 1951)

Richter, Curt P., Ph.D. Phipps Psychiatric Clinic, Johns Hopkins Hospital, Baltimore, Md. *Prof. of Psycho-biology, Johns Hopkins Univ.* (**1,** 1924)

Richter, Goetz W., M.D. Cornell Univ. Med. College, Dept. of Pathology, New York City 21. *Asst. Prof.* (**4,** 1954)

Richter, Maurice N., M.D. 303 E. 20th St., New York City. *Prof. of Pathology, Bellevue Med. Center; Dir. Dept. of Pathology, Univ. Hospital.* (**4,** 1931)

Ricketts, Henry T., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Prof. of Medicine.* (**1,** 1940)

Riddle, Oscar, Ph.D. Route 4, Plant City, Fla. (**1R,** 1919)

Rider, J. Alfred, M.D., Ph.D. Univ. of California Hosp., San Francisco. *Asst. Prof. of Medicine.* (**3,** 1957)

Ridley, Roger W., M.D. College of Med. Evangelists, Dept. of Pharmacology, Loma Linda, Calif. *Asst. Prof.* (**3,** 1953)

Rieders, Fredric, Ph.D. Toxicology Lab. of Med. Examiner of Philadelphia and Jefferson Med. College, Philadelphia 7, Pa. *Chief Toxicologist of Philadelphia; Assoc. Prof. of Pharmacology.* (**3,** 1954)

Riegel, Byron, Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Chemical Research.* (**2,** 1942)

Riegel, Cecilia, Ph.D. Lankenau Hospital, Biochemistry Lab., Philadelphia 31, Pa. *Biochemist.* (**2,** 1938)

Rieser, Peter, Ph.D. Marine Biological Lab., Woods Hole, Mass. (**1,** 1954)

Rigdon, R. H., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Pathology.* (**4,** 1941)

Riggs, Douglas S., M.D. Univ. of Buffalo Med. School, Buffalo 14, N. Y. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1948)

Riggs, Lloyd K., Ph.D. Box 101, Oakdale, L. I., N. Y. *Sr. Scientist, Evans Research and Development Corp.* (**2R,** 1929)

Riggs, Lorrin A., Ph.D. Brown Univ., Providence 12, R. I. *Prof. of Psychology.* (**1,** 1953)

Riggs, Thomas Rowland, Ph.D. Univ. of Michigan Med. School, Dept. of Biological Chemistry, Ann Arbor. *Asst. Prof.* (**2,** 1954)

Riker, Walter F., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. and Chairman, Dept. of Pharmacology.* (**3,** 1947)

Riley, Richard F., Ph.D. Univ. of California at Los Angeles Med. Ctr., Los Angeles 24, Calif. *Assoc. Prof. of Radiology and Physiological Chemistry.* (**3,** 1950)

Riley, Richard L., M.D. 1901 Dixon Rd., Baltimore 9, Md. *Assoc. Prof. of Environmental Medicine and of Medicine, Johns Hopkins Univ.* (**1,** 1948)

Ring, Gordon C., Ph.D. Univ. of Miami School of Medicine, Dept. of Physiology, Coral Gables 34, Fla. *Chairman of Dept.* (**1,** 1933)

Rinzler, Seymour H., M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Instructor.* (**3,** 1951)

Rioch, David M., M.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Center, Washington 12, D. C. *Dir., Neuropsychiatry Div.* (1, 1931)

Rittenberg, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. and Chairman, Dept. of Biochemistry.* (2, 1939)

Rivers, T. M., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member Emeritus.* (4, 1925; 6, 1921)

Robb, Jane Sands, Sc.D., M.D. State Univ. of New York at Syracuse, College of Medicine, Syracuse 10. *Assoc. Prof. of Pharmacology.* (1, 1924; 3, 1952)

Robbins, Benjamin Howard, M.D. Vanderbilt Univ. School of Medicine, Nashville 4, Tenn. *Prof. of Anesthesiology; Assoc. Prof. of Pharmacology.* (3, 1936)

Robbins, Frederick C., M.D. 2469 Wellington Rd., Cleveland Heights, Ohio. *Prof. of Pediatrics, Western Reserve Univ. School of Medicine; Dir., Dept. of Pediatrics and Contagious Diseases, Cleveland City Hosp.* (6, 1952)

Robbins, Kenneth C., Ph.D. 1425 W. 42d St., Chicago, Ill. *Central Research Dept., Research Div., Armour and Co.* (6, 1950)

Robbins, Mary L., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Assoc. Prof. of Bacteriology.* (6, 1946)

Robbins, Stanley L. Boston Univ. Med. School, Mallory Inst. of Pathology, Boston City Hosp., Boston 18, Mass. *Assoc. Dir. and Assoc. Pathologist; Prof. of Pathology.* (4, 1952)

Roberts, Eugene, Ph.D. City of Hope Med. Ctr., Duarte, Calif. *Chairman, Dept. of Biochemistry and Asst. Dir. of Research.* (2, 1950)

Roberts, Jay, Ph.D., Cornell Univ. Med. College, Dept. of Pharmacology, New York City 21. *Asst. Prof.* (3, 1956)

Roberts, Joseph T., M.D., Ph.D. Veterans Admin. Hospital, Buffalo, N. Y. *Chief of Cardiology Sec.; Lecturer in Medicine, Univ. of Buffalo School of Medicine.* (1, 1947)

Roberts, Kathleen E., M.D. Memorial Hosp., 444 E. 68th St., New York City. *Member, Dept. of Medicine; Associate, Sloan-Kettering Inst.* (1, 1956)

Roberts, Lydia J., Ph.D. Univ. of Puerto Rico, Rio Piedras, P. R. *Prof. of Home Economics.* (5, 1933)

Roberts, Sidney, Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. of Physiological Chemistry.* (1, 1946; 2, 1950)

Robertson, Elizabeth Chant, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Clin. Teacher, Dept. of Pediatrics; Assoc. Physician, Hospital for Sick Children.* (5, 1939)

Robertson, James S., M.D., Ph.D. Brookhaven Natl. Lab., Med. Dept., Upton, L. I., N. Y. *Head, Med. Physics Div.* (1, 1954)

Robertson, Oswald H., M.D. Stanford Univ., Dept. of Biology, Palo Alto, Calif. *Prof. of Medicine.* (4R, 1932)

Robertson, William van B., Ph.D. Univ. of Vermont, College of Medicine, Dept. of Biochemistry, Burlington. *Professor.* (2, 1952)

Robins, Eli, M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Psychiatry.* (2, 1957)

Robinson, Charles Summers, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. Emeritus of Biochemistry.* (2R, 1925)

Robinson, Elliott S., M.D., Ph.D. Elm St., R.F.D. 2, Lancaster, N. H. (6, 1935)

Robinson, G. Canby, M.D. 320 Carpenter St., Greenport, N. Y. (1R, 1912)

Robinson, Harry J., Ph.D., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Director* (3, 1946)

Robinson, Herbert E., Ph.D. Swift and Co., Research Labs., Union Stock Yards, Chicago 9, Ill. *Dir. of Labs.* (5, 1947)

Robinson, Howard W., Ph.D. Temple Univ. Med. School, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Physiological Chemistry.* (2, 1929)

Robinson, Sid, Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (1, 1941)

Robinson, True W., Ph.D. Med. College of Alabama, Dept. of Physiology, Birmingham 3. (1, 1948)

Roblin, Richard O., Jr., Ph.D. American Cyanamid Co., 30 Rockefeller Plaza, New York City 20. *Asst. Gen. Manager, Pigments Div.* (2, 1946)

Roboz, Elizabeth, Ph.D. Georgetown Univ. School of Medicine, Dept. of Biochemistry, Washington 7, D. C. *Assoc. Prof.* (2, 1956)

Robscheit-Robbins, F. S., Ph.D. 987 East Ave., Rochester, N. Y. (1, 1925; 4, 1930)

Rocha e Silva, Mauricio, M.D. Instituto Biologico, Sao Paulo, Brazil. *Chief, Biochemistry and Pharmacology Section.* (3, 1952)

Rockland, Louis B., Ph.D. 263 S. Chester Ave., Pasadena 5, Calif. *Chemist, USDA, Fruit and Vegetable Chemistry Lab., Agricultural Research Service, Western Utilization Research Br.* (2, 1953)

Rockstein, Morris, Ph.D. New York Univ. College of Medicine, Dept. of Physiology, New York City 16. *Assoc. Prof.* (1, 1955)

Rodahl, Kaare, M.D. Lankenau Hosp., Philadelphia 31, Pa. *Dir. of Clin. Research.* (1, 1952)

Rodbard, Simon, Ph.D., M.D. Univ. of Buffalo School of Medicine, Chronic Disease Research Inst., Buffalo 14, N. Y. *Director and Prof. of Exptl. Medicine.* (1, 1942)

Roderuck, Charlotte E., Ph.D. Iowa State Col-

lege, Dept. of Foods and Nutrition, Ames. *Professor.* (5, 1951)

Rodkey, Frederick L., Ph.D. Harvard Med. School, Dept. of Biological Chemistry, Boston 15, Mass. *Asst. Prof.* (2, 1955)

Roe, Joseph Hyram, Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. of Biochemistry; Exec. Officer of Dept.* (2, 1927; 5, 1933)

Roeder, Kenneth D., D.Sc., M.A. Tufts Univ., Medford, Mass. *Prof. of Physiology.* (1, 1942)

Roepke, Martin Henry, Ph.D. USDA Agric. Research Service, Animal Disease and Parasite Research Div., Beltsville, Md. *Head, Chemistry and Physics Sec.* (3, 1937)

Rogers, Fred T., Ph.D., M.D. Dallas Med. and Surgical Clinic, 4105 Live Oak St., Dallas 1, Tex. (1R, 1917)

Rogers, Stanfield, M.D. Duke Univ. Med. School, Durham, N. C. *Assoc. Prof.* (4, 1952)

Rogoff, Julius M., M.D., Sc.D. 45 S. Beach Dr., Belle Island, Rowayton, Conn. *Dir., Rogoff Fndn.* (1R, 1916; 3R, 1916)

Rohse, Wayne G., Ph.D. Loyola Univ. Stritch School of Medicine, Chicago, Ill. *Asst. Prof. of Physiology.* (1, 1957)

Roine, Paavo K., Ph.D. Viikin Koetila, Malmi, Finland. *Prof. of Nutritional Chemistry, Helsinki Univ.* (5, 1950)

Roizin, Leon, M.D. New York State Psychiatric Inst., New York City 32. *Prin. Research Scientist (Neuropathology); Assoc. Prof., Neuropathology, Columbia Univ., College of Physicians and Surgeons.* (4, 1957)

Rolfe, Daniel Thomas, M.D. Meharry Med. College, Nashville 8, Tenn. *Dean; Prof. and Chairman, Dept. of Physiology.* (1, 1950)

Roll, Paul M., Ph.D. Marquette Univ. School of Medicine, Dept. of Biochemistry, Milwaukee 3, Wis. *Assoc. Prof.* (2, 1950)

Romanoff, Alexis L., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Chemical Embryology.* (1, 1953)

Romanoff, Elijah B., Ph.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. *Research Scientist.* (1, 1957)

Ronkin, R. R., Ph.D. Univ. of Delaware, Newark. *Assoc. Prof., Dept. of Biological Sciences.* (1, 1956)

Ronzoni, Ethel, Ph.D. Washington Univ. Med. School, 640 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Biological Chemistry, Dept. of Psychiatry and Neurology.* (2, 1923)

Roos, Albert, M.D. Washington Univ. School of Medicine, Depts. of Physiology and Surgery, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Assoc. Prof. in Physiology and Surgery.* (1, 1949)

Root, Howard F., M.D. Joslin Clinic, 15 Joslin Road, Boston 15, Mass. *Lecturer in Medicine, Harvard Med. School.* (5, 1933)

Root, Mary Avery, Ph.D. Eli Lilly and Co., Research Labs., Indianapolis 6, Ind. *Pharmacologist.* (3, 1952)

Root, Raymond W., Ph.D. College of the City of New York, 139th St. and Convent Ave., New York City. *Prof. of Biology; Head of Div. of Physiology.* (1, 1949)

Root, Walter S., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (1, 1932)

Rosahn, Paul D., M.D. 92 Grand St., New Britain, Conn. *Pathologist, New Britain General Hospital; Assoc. Clin. Prof. of Pathology, Yale Univ. School of Medicine.* (4, 1934)

Rose, Catharine S., Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Assoc. in Pediatrics.* (2, 1953)

Rose, Harry M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. and Chairman, Dept. of Microbiology.* (6, 1949)

Rose, Irwin A., Ph.D. Yale Univ. School of Medicine, Dept. of Biochemistry, New Haven, Conn. *Asst. Prof.* (2, 1957)

Rose, Jerzy E., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiology and Psychiatry.* (1, 1949)

Rose, Noel R., Ph.D. Univ. of Buffalo School of Medicine, Dept. of Bacteriology and Immunology, Buffalo 14, N. Y. *Asst. Prof.* (6, 1956)

Rose, William C., Ph.D. Univ. of Illinois, Urbana. *Research Prof. of Biochemistry, Emeritus.* (2, 1912; 5, 1933)

Rosebury, Theodor, D.D.S. Washington Univ. School of Dentistry, 4559 Scott Ave., St. Louis 10, Mo. *Prof. of Bacteriology.* (6, 1953)

Roseman, Saul, Ph.D. Rackham Arthritis Research Unit, Univ. Hospital, Ann Arbor, Mich. *Assoc. Prof. of Biological Chemistry, Univ. of Michigan.* (2, 1953)

Rosen, Fred, Ph.D. Roswell Park Memorial Inst., Buffalo, N. Y. *Assoc. Cancer Research Scientist.* (5, 1955)

Rosen, Harry, Ph.D. Wyeth Inst. for Med. Research, Box 8299, Philadelphia 1, Pa. *Research Scientist; Pharmacologist.* (3, 1957)

Rosenberg, Hans Reinhard, D.Sc. E.I. duPont de Nemours and Co., Inc., Stine Lab., Newark, Del. *Manager, Nutrition Sec.* (2, 1954)

Rosenblueth, Arturo, M.D. Instituto Nacional de Cardiologia, Ave. Cuauhtémoc 300, Mexico 7, D.F., Mexico. (1, 1932)

Rosenblum, Ira, Ph.D. Albany Med. College, Dept. of Pharmacology, Albany 2, N. Y. *Asst. Prof.* (3, 1956)

Rosenfeld, George, Ph.D. NAMRU 1 ✱, Univ. of

California, Berkeley. *Cdr., Med. Service Corps, USN (Allied Sciences Sec.)* (**1**, 1957)

Rosenfeld, Morris, M.D. Johns Hopkins School of Medicine, Baltimore 5, Md. *Assoc. Prof. of Pharmacology and Exper. Therapeutics.* (**3**, 1934)

Rosenfeld, Robert S., Ph.D. Sloan-Kettering Inst., New York City 21. *Assoc., Dept. of Steroid Biochemistry.* (**2**, 1956)

Rosenkrantz, Harris, Ph.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. *Research Biochemist; Head of Spectroscopy.* (**2**, 1957)

Rosenman, Ray H., M.D. 3969 Washington St., San Francisco 18, Calif. *Research Assoc., Harold Brunn Inst., Mt. Zion Hosp.* (**1**, 1954)

Rosenow, Edward C., M.D. Methodist Home, 3701 Bryant Ave. S., Minneapolis, Minn. (**4R**, 1913; **6R**, 1915)

Rosenthal, Harold L., Ph.D. Rochester General Hosp., Div. of Biochemistry, Rochester 8, N. Y. *Biochemist.* (**2**, 1957)

Rosenthal, Otto, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Biochemistry in Surgery, Harrison Dept. of Surgical Research.* (**2**, 1946)

Rosenthal, S. R., M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Assoc. Prof. of Preventive Medicine; Dir., Inst. for Tuberculosis Research of Univ. of Illinois.* (**1**, 1948; **4**, 1941)

Rosenthal, Sanford M., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Pharmacology and Toxicology, Inst. of Arthritis and Metabolic Diseases.* (**3**, 1925)

Ross, Joseph F., M.D. Univ. of California School of Medicine, Los Angeles 24. *Prof. of Medicine; Prof. of Radiology (Radiobiology); Assoc. Dean.* (**4**, 1941)

Ross, Oscar Alan, M.D., Ph.D. Western Reserve Univ., Inst. of Pathology, Cleveland 6, Ohio. *Asst. Prof. of Pathology.* (**4**, 1957)

Ross, Richard Starr, M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Medicine.* (**1**, 1957)

Rossiter, R. J., M.D., Ph.D. Univ. of Western Ontario, London, Ontario, Canada. *Prof. of Biochemistry.* (**2**, 1948)

Rostorfer, Howard Hayes, Ph.D. Indiana Univ., Bloomington. *Prof. of Physiology.* (**1**, 1946)

Roth, George B., M.D. 3814 T St. N.W., Washington 7, D. C. *Prof. Emeritus of Pharmacology, George Washington Univ.* (**1R**, 1914; **3R**, 1911)

Roth, Grace M., Ph.D. Mayo Clinic, Rochester, Minn. *Staff Consultant in Physiology; Prof. of Exptl. Medicine, Mayo Fndn.* (**1**, 1939)

Roth, James Luther d'Aumont, M.D., Ph.D. Univ. of Pennsylvania Grad. Hospital, 19th and Lombard Sts., Philadelphia 46. *Assoc. Prof. of Gastroenterology and of Physiology, Grad. School of Medicine, Univ. of Pennsylvania; Dir., Gastrointestinal Research.* (**1**, 1950).

Roth, Jay S., Ph.D. Hahnemann Med. College, Philadelphia 2, Pa. *Assoc. Prof. of Biochemistry.* (**2**, 1956)

Roth, L. W., Ph.D. Abbott Research Labs., Dept. of Pharmacology, North Chicago, Ill. *Asst. Admin. of Exptl. Therapy.* (**1**, 1947; **3**, 1950)

Roth, Lloyd J., M.D., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago, Ill. *Chairman of Dept.* (**3**, 1955)

Rothchild, Irving, Ph.D., M.D. Western Reserve Univ., Dept. of Obstetrics and Gynecology, Cleveland, Ohio. (**1**, 1949)

Rothemund, Paul W. K., Dr.-Ing. Box 64, Yellow Springs, Ohio. *Consultant Chemist and Chem. Engineer.* (**2**, 1940)

Rothlin, Ernst, M.D. Sonnenweg 6, Basle, Switzerland. *Prof. of Medicine.* (**3**, 1951)

Rothstein, A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology; Chief, Physiology Sec., AEC Project.* (**1**, 1949; **3**, 1952)

Rothstein, Morton, Ph.D. Univ. of California School of Medicine, Dept. of Physiological Chemistry, Berkeley 4. *Asst. Research Biochemist.* (**2**, 1956)

Roughton, Francis John Worsley, Ph.D., Univ. of Cambridge, Free School Lane, Cambridge, England. *John Humphrey Plummer Prof. of Colloid Science.* (**1H**, 1957)

Rous, Peyton, M.D., Sc.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Member Emeritus.* (**4**, 1913)

Routh, Joseph I., Ph.D. State Univ. of Iowa Med. Research Ctr., Dept. of Biochemistry, Iowa City. *Prof. of Biochemistry.* (**2**, 1942)

Rovenstine, Emery Andrew, M.D. 550 First Ave., New York City 16. *Prof., Dept. of Anesthesiology, New York Univ.-Bellevue Med. Center.* (**3**, 1944)

Rowley, Donald Adams. M.D. Univ. of Chicago, Dept. of Pathology, Chicago 37, Ill. *Asst. Prof.* (**4**, 1956)

Rowntree, Jennie I., Ph.D. 6318-21st, N.E., Seattle, Wash. (**5**, 1933)

Rowntree, L. G., M.D., Sc.D. Dupont Bldg., E. Flagler St. at Second Ave., Miami, Fla. (**1R**, 1911; **2R**, 1910; **3R**, 1908)

Rubenstein, Boris B., Ph.D., M.D. 5121 S. Ellis Ave., Chicago 15, Ill. (**1**, 1934)

Rubin, Bernard, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Research Pharmacologist.* (**3**, 1954)

Rubin, Saul H., Ph.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Dir., Applied Research.* (**2**, 1947; **5**, 1947)

Ruch, Theodore C., Ph.D. Univ. of Washington, G405 Health Sciences Bldg., Seattle 5. *Prof. and Exec. Officer, Dept. of Physiology and Biophysics.* (**1**, 1933)

Ruchman, Isaac, Ph.D. William S. Merrell Co., Cincinnati 15, Ohio. *Head of Microbiology.* (**6,** 1948)

Rudin, Donald O., M.D. Eastern Pennsylvania Psychiatric Inst., Philadelphia. *Dir. of Basic Research.* (**1,** 1955)

Rudney, Harry, Ph.D. Western Reserve Univ. School of Medicine, Dept. of Biochemistry, Cleveland 6, Ohio. *Asst. Prof.* (**2,** 1955)

Rudolph Guilford G., Ph.D. Univ. of Maryland School of Medicine, Baltimore 1. *Assoc. Prof. of Biological Chemistry.* (**1,** 1957)

Ruegamer, W. R., Ph.D. VA Hosp., Radioisotope Unit, Syracuse 10, N. Y. *Principal Scientist; Asst. Prof. of Biochemistry, State Univ. of N. Y.* (**2,** 1955)

Ruhe, C. H. William, M.D. Univ. of Pittsburgh, School of Medicine, Pittsburgh 13, Pa. *Assoc. Prof. of Physiology and Pharmacology,* (**1,** 1951)

Rusch, Harold Paul, M.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison 6. *Prof. of Oncology; Dir. of Lab.* (**4,** 1940)

Rushmer, Robert F., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Professor.* (**1,** 1949)

Ruskin, Arthur, M.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. of Internal Medicine.* (**1,** 1957)

Rusoff, Louis L., Ph.D. Louisiana State Univ., Baton Rouge. *Nutritionist.* (**5,** 1948)

Russell, Jane A., Ph.D. Emory Univ., Dept. of Biochemistry, Emory University, Ga. *Assoc. Prof.* (**1,** 1939)

Russell, William O., M.D., Univ. of Texas Med. Ctr., M. D. Anderson Hosp., Houston. *Pathologist-in-Chief.* (**4,** 1955)

Russfield, Agnes Burt, M.D. Massachusetts Gen. Hosp., Boston 14. *Asst. Pathologist; Assoc. in Pathology, Harvard Med. School.* (**4,** 1956)

Rust, John Howard, D.V.M. Armed Forces Inst. of Pathology, WRAMC, Washington 25, D. C. (**4,** 1957)

Rustigian, Robert, Ph.D. Tufts Univ. School of Medicine, Dept. of Bacteriology and Pathology, Boston, Mass. *Asst. Prof.* (**6,** 1951)

Rutman, Robert J., Ph.D. Univ. of Pennsylvania, Dept. of Chemistry, Philadelphia 4. *Research Assoc.* (**2,** 1957)

Ryan, Andrew Howard, M.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1912)

Rytand, David A., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Prof. and Exec. of Dept. of Medicine, Stanford Univ. School of Medicine.* (**3,** 1946)

Sabin, Albert B., M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Prof. of Research Pediatrics, Univ. of Cincinnati.* (**6,** 1946)

Sable, Henry Z., M.D., Ph.D. Western Reserve Univ., Dept. of Biochemistry, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof.* (**2,** 1954)

Sachs, Ernest, M.D. 28 Marlborough Rd., North Haven, Conn. *Prof. Emeritus of Clin. Neurological Surgery, Washington Univ. Med. School. and Yale Univ.* (**1R,** 1910)

Sachs, Howard, Ph.D. Western Reserve Univ. School of Medicine, Dept. of Physiology, Cleveland 6, Ohio. *Instructor.* (**2,** 1957)

Sacks, Jacob, Ph.D., M.D. Univ. of Arkansas, Dept. of Chemistry, Fayetteville. *Professor.* (**1,** 1948; **3,** 1933)

Sacktor, Bertram, Ph.D. Directorate of Med. Research, Chem. Warfare Labs., Army Chemical Center, Md. *Biochemist.* (**2,** 1957)

Sah, Peter P. T., Ph.D. Univ. of Calif., School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Professor.* (**3,** 1941)

Sahyun, Melville, Ph.D. Sahyun Research Lab., 316 Castillo St., Santa Barbara, Calif. *Dir. and Pres.* (**2,** 1932)

Sakami, Warwick, Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

Salerno, Paul R., M.D., Ph.D. Western Reserve Univ., Dept. of Pharmacology, Cleveland, Ohio. *Asst. Prof.* (**3,** 1955)

Salisbury, Peter F., Ph.D., M.D. Cedars of Lebanon Hosp., Los Angeles 29, Calif. (**1,** 1957)

Salk, Jonas E., M.D. Virus Research Laboratory, Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Commonwealth Prof. of Exptl. Medicine.* (**6,** 1947)

Sallach, H. J., Ph.D. Service Memorial Inst., Univ. of Wisconsin, Madison 6. *Asst. Prof., Dept. of Physiological Chemistry.* (**2,** 1957)

Salmon, W. D., A.M. Alabama Polytechnic Inst., Dept. of Animal Husbandry and Nutrition, Auburn. *Animal Nutritionist and Professor.* (**2,** 1929; **5,** 1933)

Salomon, Kurt, M.D., Ph.D. Univ. of Rochester School of Medicine & Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Radiation Biology and Biochemistry; Chief of Sec. of Radiation Chemistry, Atomic Energy Project.* (**2,** 1952)

Saltman, Paul, Ph.D. Univ. of Southern California, Dept. of Biochemistry, Los Angeles 7. *Asst. Prof.* (**2,** 1957)

Salvin, Samuel B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Sr. Scientist.* (**6,** 1952)

Samaras, Stelios C., M.D. Creighton Univ. School of Medicine, Omaha, Neb. *Assoc. Prof. of Pathology.* (**1,** 1955)

Samet, Philip, M.D. Mount Sinai Hosp., Miami Beach 40, Fla. *Dir., Cardio-pulmonary Lab.; Asst. Prof. of Physiology, Univ. of Miami School of Medicine.* (**1,** 1956)

Sampson, John J., M.D. 2211 Post St., San Francisco, Calif. *Clin. Prof. of Medicine, Univ. of California.* (1, 1932)

Sampson, Myra M., Ph.D. Smith College, Northampton, Mass. *Prof. Emeritus of Zoology.* (5, 1935)

Samson, Frederick Eugene, Jr., Ph.D Univ. of Kansas School of Medicine, Dept. of Physiology, Lawrence. *Asst. Prof.* (1, 1957)

Samuels, Leo T., Ph.D. Univ. of Utah Med. School, Salt Lake City 1. *Prof. and Head of Dept. of Biological Chemistry.* (2, 1941; 3, 1937; 5, 1949)

Sanadi, D. Rao, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Asst. Prof.* (2, 1952)

Sandels, Margaret R., Ph.D. Florida State Univ., Tallahassee. *Dean of School of Home Economics; Prof. of Nutrition.* (5, 1933)

Sandiford, Irene, Ph.D. % Dr. James H. Saint, 2435 State St., Santa Barbara, Calif. (2R, 1925; 5R, 1933)

Sandow, Alexander, Ph.D. Washington Square College of Arts and Sciences, New York Univ., New York City. *Prof. of Biology.* (1, 1945)

Sandweiss, David J., M.D. 15201 W. McNichols Rd., Detroit 35, Mich. *Asst. Prof. in Clin. Medicine, Wayne State Univ. College of Medicine; Attending Physician in Medicine, Harper Hosp.* (1, 1944)

Sanford, Arthur H., M.D. Div. of Clinical Labs., Mayo Clinic, Rochester, Minn. *Emeritus Head.* (6R, 1920)

Sanford, Katherine Koontz, Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Biologist (Cytology).* (4, 1957)

San Pietro, Anthony, Ph.D. McCollum-Pratt Inst., Johns Hopkins Univ., Baltimore 18, Md. *Asst. Prof. of Biology.* (2, 1957)

Santos, Francisco O., Ph.D. Univ. of the Philippines, College of Agriculture, Laguna. *Asst. Dean and Asst. Dir., Central Exper. Station; Prof. of Agricultural Chemistry, College of Agriculture.* (5, 1936)

Saphir, Otto, M.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Dir. of Pathology. Clin. Prof. of Pathology, Univ. of Illinois Med. School.* (4, 1927)

Saphra, Ivan, M.D. Beth Israel Hospital, New York City 3. *Chief Bacteriologist.* (6, 1946)

Sapirstein, Leo Abraham, Ph.D., M.D. Ohio State Univ., Dept. of Physiology, Columbus 10. (1, 1950)

Sarett, Herbert P., Ph.D. Mead Johnson & Co., Research Labs., Evansville 21, Ind. *Dir. Nutritional Research.* (2, 1946; 5, 1947)

Sargent, Frederick, II, M.D. Univ. of Illinois, 401 Natural History Bldg., Urbana. *Assoc. Prof. of Physiology.* (1, 1952)

Sarnoff, Stanley J., M.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chief, Lab. of Cardiovascular Physiology.* (1, 1949)

Sartorius, Otto W., M.D. Syracuse Univ., College of Medicine, Irving Ave., Syracuse, N. Y. *Asst. Prof. of Physiology.* (1, 1950)

Saslaw, Samuel, Ph.D., M.D. Ohio State Univ., Columbus 10. *Assoc. Prof. in Medicine and Bacteriology.* (6, 1950)

Satterfield, G. Howard, A.M. Univ. of North Carolina, State College of Agriculture and Engineering, Raleigh. *Prof. of Biochemistry.* (2, 1944; 5, 1941)

Sauberlich, Howerde E., Ph.D. Alabama Polytechnic Inst., Dept. of Animal Husbandry and Nutrition, Auburn. *Prof. and Animal Nutritionist.* (2, 1951; 5, 1952)

Saul, Leon Joseph, M.D. 111 No. 49th St., Philadelphia 39, Pa. *Prof. of Clin. Psychiatry, Med. School Univ. of Pennsylvania.* (1, 1933)

Saunders, Francis J., Ph.D. G. D. Searle and Co., Chicago, Ill. *Chief Endocrinologist, Div. of Biological Research.* (1, 1956)

Saunders, J. Palmer, Ph.D. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. *Pharmacologist.* (3, 1956)

Savard, F. G. Kenneth, D.Sc. Univ. of Miami School of Medicine, Miami 36, Fla. *Assoc. Prof. of Biochemistry; Chief of Endocrine Lab., Dept. of Medicine.* (2, 1953)

Sawyer, Charles H., Ph.D. Univ. of California School of Medicine, Dept. of Anatomy, Los Angeles 24. *Prof. and Chairman of Dept.* (1, 1949)

Sawyer, Margaret E. MacKay, Ph.D. Dept. of Physiology, Queen's Univ., Kingston, Ontario, Canada. (1, 1935)

Sawyer, Wilbur H., Ph.D., M.D. Columbia Univ., College of Physicians & Surgeons, Dept. of Pharmacology, 630 W. 168th St., New York City 32. *Assoc. Prof.* (1, 1953)

Sayers, George, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Physiology, Cleveland 6, Ohio. *Professor.* (1, 1948; 3, 1947)

Saz, Howard J., Ph.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Asst. Prof. of Pharmacology.* (2, 1957)

Scantlebury, Ronald E., Ph.D. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. *Chief, Research Fellowships Branch.* (1, 1948)

Scarpelli, Dante G., M.D. Ohio State Univ. College of Medicine, Columbus. *NSF Postgraduate Fellow in Pathology.* (4, 1957)

Schabel, F. M., Jr., Ph.D. Southern Research Inst., Birmingham 5, Ala. *Head, Chemotherapy Div.; Microbiologist, Baptist Hosps.* (4, 1956)

Schachman, Howard K., Ph.D. Univ. of California, Biochemistry and Virus Lab., Berkeley 4. *Assoc. Prof. of Biochemistry; Assoc. Research Biochemist.* (2, 1955)

Schaefer, Arnold E., Ph.D. Natl. Insts. of Health,

Interdepartmental Committee on Nutrition, Bethesda 14, Md. (5, 1950)

Schaefer, Karl Ernst, M.D. U. S. Naval Med. Research Lab., New London, Conn. *Supervising Physiologist; Head, Physiology Branch.* (1, 1953)

Schaffer, Norwood K., Ph.D., M.D. Chemical Warfare Labs., Enzyme Chemistry Branch, Army Chemical Center, Md. *Biochemist.* (2, 1954)

Schales, Otto, D.Sc. Ochsner Clinic, Prytania and Aline Sts., New Orleans, La. *Dir. of Chemical Research, Ochsner Foundation; Prof. of Biochemistry, Tulane Univ. School of Medicine.* (2, 1944)

Schallek, William B., Ph.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Sr. Physiologist.* (1, 1951; 3, 1957)

Scharles, Frederick H., M.D. 333 N. Highland Ave., Los Angeles 36, Calif. (5, 1935)

Schattenberg, Herbert John, M.D. Lab. of Clin. Pathology, 222 Med. Arts Bldg., San Antonio, Tex. *Director.* (4, 1940)

Schayer, Richard W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc.* (1, 1957; 2, 1952)

Scheer, Bradley T., Ph.D. Univ. of Oregon, Eugene. *Prof. of Biology.* (1, 1952)

Schenck, Jay R., Ph.D. Abbott Labs., North Chicago, Ill. *Research Biochemist.* (2, 1952)

Schenken, John R., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. and Chairman, Dept. of Pathology.* (4, 1942)

Schepers, Gerrit W. H., M.D., D.Sc. Univ. of Michigan, Dept. of Pathology, Ann Arbor. (4, 1957)

Scher, Allen M., Ph.D. Univ. of Washington, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (1, 1955)

Scheraga, Harold A., Ph.D. Cornell Univ., Dept. of Chemistry, Ithaca, N. Y. *Assoc. Prof.* (2, 1955)

Scherago, Morris, D.V.M. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Prof. and Head of Dept.* (6, 1948)

Scherer, William F., M.D. Univ. of Minnesota Med. School, Minneapolis 14. *Assoc. Prof. of Bacteriology and Immunology.* (6, 1954)

Scherp, Henry W., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Bacteriology and Immunochemistry.* (6, 1940)

Schick, Bela, M.D. 1045 Park Ave., New York City 28. *Dir. Pediatrics Dept., Beth El Hosp., Brooklyn.* (6, 1924)

Schiffrin, Milton J., Ph.D. Hoffmann-La Roche, Inc., Chicago, Ill. *Asst. Dir., Dept. of Clin. Research.* (1, 1943)

Schiller, Joseph, M.D., Ph.D. VA Hosp., 408 First Ave., New York City. *Staff.* (1, 1949)

Schiller, Sara, Ph.D. LaRabida-Univ. of Chicago Inst., LaRabida Sanitarium, Chicago 49, Ill. *Sr. Biochemist, Univ. of Chicago.* (2, 1955)

Schilling, John A., M.D. Univ. of Oklahoma Med. Ctr., Oklahoma City 4. *Prof. of Surgery.* (4, 1956)

Schlamowitz, Max, Ph.D. Div. of Biochemistry, Roswell Park Memorial Inst., Buffalo 3, N. Y. (2, 1953)

Schlegel, J. U., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Asst. Prof. of Urological Surgery; Dir. of Urological Research Lab.* (1, 1951)

Schlenk, Fritz, Ph.D. Argonne Natl. Lab., Lemont, Ill. *Sr. Biochemist, Div. of Biological and Med. Research.* (2, 1942)

Schlesinger, R. Walter, M.D. St. Louis Univ. School of Medicine, St. Louis 4, Mo. *Prof. and Dir. of Dept. of Microbiology.* (6, 1956)

Schlomovitz, Benjamin H., M.D. 1210 Majestic Bldg., 231 W. Wisconsin Ave., Milwaukee, Wis. (1, 1919)

Schlumberger, Hans G., M.D. Univ. of Arkansas Med. Ctr., Little Rock. *Prof. of Pathology.* (4, 1945)

Schmeisser, Harry C., Ph.D., M.D. Univ. of Tennessee, Memphis. *Prof. Emeritus of Pathology.* (4, 1937)

Schmid, Karl, Ph.D. Massachusetts Gen. Hosp., Lovett Memorial Labs., Boston 14. *Assoc. Biochemist.* (2, 1954)

Schmidt, C. Robert, Ph.D., M.D. 1027 S. Tejon, Colorado Springs, Colo. (1, 1940)

Schmidt, Carl F., M.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Prof. of Pharmacology.* (1, 1929; 3, 1924)

Schmidt, Emil G., Ph.D. Univ. of Maryland School of Medicine, Dept. of Biological Chemistry, Baltimore 18. *Prof. and Head of Dept.* (2, 1951)

Schmidt, Gerhard, M.D. Boston Dispensary, 25 Bennet St., Boston, Mass. *Sr. Research Prof. of Biochemistry, Tufts Univ. Med. School.* (2, 1939)

Schmidt, L. H., Ph.D. Christ Hospital Inst. of Med. Research, 2139 Auburn Ave., Cincinnati 19, Ohio. *Dir. of Research; Research Prof. of Biochemistry, Univ. of Cincinnati College of Medicine.* (2, 1936; 3, 1946)

Schmidt-Nielsen, Bodil, Dr.Odont., Dr.Phil. Duke Univ., Dept. of Zoology, Durham, N. C. *Assoc. Research Prof.; Established Investigator, Am. Heart Assn.* (1, 1949)

Schmidt-Nielsen, Knut, Dr.Phil. Duke Univ., Dept. of Zoology, Durham, N. C. *Professor of Physiology.* (1, 1949)

Schmitt, Francis Otto, Ph.D. Massachusetts Inst. of Technology, Cambridge. *Institute Prof. of Biology.* (1, 1930)

Schmitt, Otto H., Ph.D. Univ. of Minnesota,

School of Physics, Minneapolis 14. *Prof. of Biophysics (Zoology and Physics).* (1, 1947)

Schneider, Burch H., Ph.D. State College of Washington, Dept. of Animal Husbandry, Pullman. *Professor.* (5, 1952)

Schneider, Charles L., M.D., Ph.D. 22148 Michigan Ave., Dearborn, Mich. *Consultant Obstetrician and Gynecologist, Dept. of Surgery, Wayne Co. Gen. Hosp.* (1, 1949)

Schneider, Howard A., Ph.D. Rockefeller Inst. for Med. Research, 66th Street and York Avenue, New York City 21. *Assoc. Prof.* (5, 1947)

Schneider, John J., Ph.D., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. Exper. Medicine.* (2, 1950)

Schneider, Jurg A., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir. of Physiology Research; Lecturer in Pharmacology, Columbia Univ.* (1, 1956; 3, 1954)

Schneider, Walter C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chemist, Lab. of Biology.* (2, 1951)

Schneierson, S. Stanley, M.D. Mount Sinai Hospital, 1 East 100th St., New York City 29. *Attending Microbiologist.* (6, 1946)

Schneyer, Leon H., D.D.S., Ph.D. Univ. of Alabama School of Dentistry and Medical College of Alabama, Birmingham 3. *Assoc. Prof. of Physiology; Assoc. Prof. of Dentistry.* (1, 1955)

Schoenborn, Henry W., Ph.D. Univ. of Maryland, Dept. of Zoology, College Park. *Professor.* (1, 1955)

Schoepfle, Gordon M., Ph.D. Washington Univ. School of Medicine, St. Louis, Mo. *Assoc. Prof. of Physiology.* (1, 1943)

Scholander, P. F., M.D., Ph.D. Univ. of Oslo, Inst. of Zoophysiology, Blindern, Norway. (1, 1947)

Scholler, Jean, Ph.D. Sloan-Kettering Inst., Pharmacology Sec., New York City 21. *Assistant.* (3, 1956)

Schreiner, Oswald, Ph.D. 21 Primrose St., Chevy Chase 15, Md. *Collaborator, U.S.D.A.* (2R, 1908)

Schrek, Robert, M.D. Veterans Admin. Hospital, Hines, Ill. *Chief, Tumor Research Unit; Asst. Prof. of Pathology, Northwestern Univ., Chicago.* (4, 1952)

Schroeder, Henry A., M.D. Washington Univ., School of Medicine, 640 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Medicine.* (1, 1947)

Schubert, Jack, Ph.D. Argonne Natl. Lab., Box 299, Lemont, Ill. *Senior Chemist; Lecturer in Chemistry, Univ. of Chicago.* (2, 1954).

Schubert, Maxwell, Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Adjunct Assoc. Prof. of Chemistry.* (3, 1947)

Schuck, Cecelia. Ph.D. Purdue Univ., School of Home Economics, Dept. of Food and Nutrition, Lafayette, Ind. *Prof. of Nutrition.* (5, 1941)

Schueler, Fred W., Ph.D. Tulane Univ. School of Medicine, Dept. of Pharmacology, New Orleans 12, La. *Prof. and Chairman.* (3, 1949)

Schulman, Martin P., Ph.D. State Univ. of N. Y. Med. School, Dept. of Biochemistry, Syracuse 10, N. Y. *Asst. Prof.* (2, 1954)

Schultz, Edwin William, M.D. Stanford Univ., 743 Cooksey Lane, Stanford, Calif. *Prof. of Bacteriology and Exper. Pathology Emeritus.* (4, 1927; 6R, 1928)

Schultz, Fred H., Jr., Ph.D. The Wander Co., 105 W. Adams St., Chicago, Ill. *Dir. of Research.* (3, 1948)

Schultz, Julius, Ph.D. Hahnemann Med. College, Dept. of Biological Chemistry, Philadelphia 42, Pa. *Assoc. Research Prof.* (2, 1955)

Schultze, Max O., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Professor.* (2, 1938; 5, 1952)

Schwab, John H., Ph.D. Univ. of North Carolina School of Medicine, Dept. of Bacteriology, Chapel Hill. *Asst. Prof.* (6, 1956)

Schwartz, Irving L., M.D. Rockefeller Inst. for Med. Research, York Ave. and East 66th St., New York City 21. *Assoc.; Assoc. Physician to the Hospital.* (1, 1952)

Schwartz, Neena B., Ph.D. Psychosomatic and Psychiatric Inst., Michael Reese Hosp., Chicago 16, Ill. *Dir., Biological Labs.* (1, 1956)

Schwartz, Samuel, M.D. Univ. of Minnesota, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Exper. Medicine.* (2, 1952)

Schwartz, William B., M.D. New England Ctr. Hosp., Boston 11, Mass. *Assoc. Prof. of Medicine, Tufts Univ. School of Medicine.* (1, 1957)

Schweet, Richard S., Ph.D. City of Hope Med. Ctr., Dept. of Biochemistry, Duarte, Calif. *Chief, Sec. of Cardiac Chemistry.* (2, 1956)

Schweigert, B. S., Ph.D. Univ. of Chicago, American Meat Inst. Foundation, 939 E. 57th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry; Dir. of Research, American Meat Inst. Fndn.* (2, 1949; 5, 1950)

Schweizer, Malvina, Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (1, 1944)

Schwerma, Henry, Ph.D., M.D. 6030 Sheridan Rd., Apt. 1304, Chicago 40, Ill. *Practicing Anesthesiologist.* (1, 1948)

Schwerdt, Carlton E., Ph.D. Stanford Univ., Dept. of Med. Microbiology, Stanford, Calif. *Assoc. Prof.* (2, 1957)

Schwert, George W., Ph.D. Duke Univ. School of Medicine, Dept. of Biochemistry, Durham, N. C. *Assoc. Prof.* (2, 1949)

Schwimmer, Sigmund, Ph.D. Western Regional Research Lab., U. S. Dept. of Agriculture, 800 Buchanan St., Albany, Calif. *Chemist, Vegetable Processing Div.* (**2,** 1947)

Scott, Charles Covert, Ph.D., M.D. Warner-Chilcott Labs., Morris Plains, N. J. *Dir. of Pharmacology.* (**3,** 1945)

Scott, David Alymer, Ph.D. Connaught Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Member.* (**2,** 1935)

Scott, Donald, Jr., Ph.D. Univ. of Pennsylvania Med. School, 243 Anatomy Bldg., Philadelphia 4. *Asst. Prof., Dept. of Physiology; Assoc., Dept. of Neurology.* (**1,** 1950)

Scott, Edward M., Ph.D. 4306 Ambler Drive, Kensington, Md. *Biochemist, NIH.* (**2,** 1954)

Scott, Ernest L., Ph.D. 64 South St., Bogota, N. J. *Assoc. Prof. Emeritus of Physiology, Columbia Univ.* (**1R,** 1914; **2R,** 1915)

Scott, H. M., Ph.D. Univ. of Illinois, Urbana. *Prof. of Animal Science.* (**5,** 1956)

Scott, James K., M.D. Univ. of Rochester School of Medicine and Dentistry, Atomic Energy Project, Rochester 20, N. Y. *Chief, Pathology Section, AEC; Assoc. in Pathology.* (**4,** 1949)

Scott, John C., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Physiology.* (**1,** 1936)

Scott, Kenneth G., Ph.D. Univ. of California School of Medicine, Dept. of Radiology, San Francisco 22. *Dir., Radioactivity Research Ctr.; Assoc. Prof. of Exptl. Radiology.* (**3,** 1956)

Scott, Milton Leonard, Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Animal Nutrition and Poultry Husbandry.* (**2,** 1952; **5,** 1954)

Scott, V. Brown, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist, Div. of Medicine.* (**1,** 1941)

Scott, W. W., Ph.D., M.D. Brady Urological Inst., Johns Hopkins Hospital, Baltimore 5, Md. *Urologist-in-Charge; Prof. of Urology, Johns Hopkins Univ. School of Medicine.* (**1,** 1943)

Scow, Robert O., M.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Sr. Surgeon, USPHS.* (**1,** 1953)

Scrimshaw, Nevin S., Ph.D., M.D. Instituto de Nutricion de Centro America y Panama, Guatemala City, Guatemala, Central America. *Regional Advisor in Nutrition, Pan American Sanitary Bureau and WHO; Dir., Inst. of Nutrition of Central America and Panama.* (**1,** 1955; **5,** 1949)

Scudi, John V., Ph.D. Wallace and Tiernan, Inc., Box 178, Newark 1, N. J. *Dir., Pharmaceutical Research.* (**2,** 1942; **3,** 1950; **5,** 1945)

Seager, Lloyd D., M.D. Univ. of Arkansas Med. School, Little Rock. *Prof. and Head, Dept. of Physiology and Pharmacology.* (**3,** 1939)

Seaman, Gerald R., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. of Physiology.* (**1,** 1952)

Seastone, C. V., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. and Chairman of Med. Microbiology.* (**6,** 1939)

Seay, Patrick H., Ph.D. The Upjohn Co., Dept. of Pharmacology, Kalamazoo, Mich. *Research Pharmacologist.* (**3,** 1955)

Sebrell, W. H., Jr., M.D. Research Corp., 405 Lexington Ave., New York City 17. *Chairman, Williams-Waterman Fund.* (**2,** 1938; **5,** 1937)

Seeberg, Victor P., Ph.D. Cutter Labs., Berkeley, Calif. *Dir., Pharmacological Research Dept.* (**3,** 1953)

Seecof, David P., M.D. 1970 Daly Ave., Bronx, New York City. (**4,** 1927)

Seed, John C., M.D. The Wellcome Research Labs., Tuckahoe, N. Y. (**3,** 1952)

Seegal, Beatrice Carrier, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Microbiology.* (**4,** 1951; **6,** 1949)

Seegal, David, M.D. Goldwater Memorial Hospital, Columbia (First) Div., Welfare Island, New York City 17. *Dir.; Prof. of Medicine, Columbia Univ.* (**6,** 1930)

Seegers, Walter H., Ph.D. Wayne State Univ. College of Medicine, Detroit 7, Mich. *Prof. of Physiology; Chairman, Dept. of Physiology and Pharmacology.* (**1,** 1947; **2,** 1941)

Seevers, Maurice Harrison, Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1933; **3,** 1930)

Segaloff, Albert, M.D. Alton Ochsner Med. Foundation, 3503 Prytania St., New Orleans, La. *Dir. of Endocrine Research.* (**4,** 1946)

Seibert, Florence B., Ph.D. Univ. of Pennsylvania, Henry Phipps Inst., 7th and Lombard Sts., Philadelphia. *Prof. of Biochemistry.* (**2,** 1925)

Seibert, Richard A., Ph.D. Baylor Univ. College of Medicine, Dept. of Pharmacology, Houston 25, Tex. *Assoc. Prof.* (**3,** 1953)

Seidell, Atherton, Ph.D. 2301 Connecticut Ave., Washington 8, D. C. (**2R,** 1924)

Seifter, Joseph, M.D. Wyeth Inst. for Med. Research, P.O. Box 8299, Philadelphia 1, Pa. *Director.* (**3,** 1940)

Seifter, Sam, Ph.D. Albert Einstein College of Medicine, Dept. of Biochemistry, New York City 61. (**2,** 1946)

Selkurt, Ewald E., Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1945)

Sell, Harold M., Ph.D. Michigan State Univ., Dept. of Agricultural Chemistry, East Lansing. *Prof. (Research).* (**2,** 1954)

Selle, Wilbur Arthur, Ph.D., M.D. Univ. of California at Los Angeles Med. School, Los Angeles. *Prof., Dept. of Biophysics.* (**1,** 1938)

Sellers, Alvin L., M.D. Cedars of Lebanon Hosp., Los Angeles, Calif. *Research Assoc., Inst. for Med. Research.* (**1,** 1956)

Sellers, E. A., M.D., Ph.D. Defence Research Med. Labs., P. O. Box 62, Sta. "K", Toronto, Ont., Canada. *Chief Superintendent.* (**1,** 1947)

Selye, Hans, M.D., Ph.D., D.Sc. Inst. of Exper. Medicine and Surgery, Univ. of Montreal, Montreal. Quebec, Canada. *Prof. and Dir.* (**1,** 1934)

Semple, Robert E., Ph.D. Queen's Univ., Dept. of Physiology, Kingston, Canada. *Assoc. Prof.* (**1,** 1955)

Sendroy, Julius, Jr., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Chief Chemist.* (**1,** 1954; **2,** 1928)

Seraydarian, Maria W., Ph.D. VA Ctr., Pharmacology-Physiology Labs., Los Angeles, Calif. *Estab. Investigator, Los Angeles County Heart Assn.* (**1,** 1955)

Sevag, M. G., Ph.D. Univ. of Pennsylvania School of Medicine, Microbiology Dept., Philadelphia 4. *Assoc. Prof.* (**2,** 1949; **6,** 1941)

Severinghaus, Elmer L., M.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Vice-Pres. for Clin. Research.* (**2,** 1923; **5,** 1939)

Severinghaus, John W., M.D. Clinical Center, Natl. Insts. of Health, Bethesda 14, Md. *Surgeon USPHS.* (**1,** 1956)

Sevy, Roger Warren, Ph.D., M.D. Temple Univ. School of Medicine, Dept. of Pharmacology, Philadelphia 40, Pa. *Asst. Prof.* (**1,** 1955)

Shack, Joseph, Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Biochemist.* (**2,** 1954)

Shadle, Oscar W., M.D. Univ. of Louisville School of Medicine, Louisville 2, Ky. *Assoc. Prof. of Physiology.* (**1,** 1955)

Shaffer, C. Boyd, Ph.D. American Cyanamid Co., 30 Rockefeller Plaza, New York City 20. *Chief Industrial Toxicologist.* (**3,** 1950)

Shaffer, Morris F., Ph.D. Tulane Univ. School of Medicine, Dept. of Microbiology, New Orleans, La. *Prof. and Dept. Chairman.* (**4,** 1939; **6,** 1937)

Shaffer, Philip A., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. Emeritus of Biological Chemistry.* (**2,** 1906)

Shanes, Abraham M., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda, 14, Md. *Animal Physiologist.* (**1,** 1946)

Shank, Robert E., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Danforth Prof. of Preventive Medicine and Head of Dept.* (**2,** 1947)

Shannon, James A., Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Director.* (**1,** 1933; **3,** 1945)

Shapiro, Herbert, Ph.D. Hospital of the Univ. of Pennsylvania, 3600 Spruce St., Philadelphia 4. *Asst. Prof. of Physical Medicine, Grad. School of Medicine.* (**1,** 1937)

Shapiro, John L., M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pathology.* (**4,** 1956)

Share, Leonard, Ph.D. Western Reserve Univ. School of Medicine, Dept. of Physiology, Cleveland 6, Ohio. *Asst. Prof.* (**1,** 1956)

Sharpless, George R., Sc.D. Lederle Labs., Pearl River, N. Y. *Research Assoc.* (**5,** 1942)

Shaughnessy, Howard J., Ph.D. Univ. of Illinois, Dept. of Public Health, Chicago 12, Ill. *Prof. and Head of Dept.; Dep. Dir., Div. of Labs.* (**6,** 1955)

Shaw, Elliott, Ph.D. Tulane Univ., Dept. of Biochemistry, New Orleans, La. (**2,** 1954)

Shaw, J. C., Ph.D. Univ. of Maryland, Dept. of Dairy Husbandry, College Park. *Professor.* (**1,** 1947)

Shaw, James H., Ph.D. Harvard School of Dental Medicine, Boston, Mass. *Assoc. Prof. of Biological Chemistry.* (**5,** 1948)

Shaw, Kenneth N. F., Ph.D. Univ. of Utah, Metabolic Lab., Bldg. 100, Salt Lake City 12. *Asst. Research Prof., Univ. of Utah College of Medicine.* (**2,** 1957)

Shaw, Myrtle, Ph.D. 11 S. Lake Ave., Albany, N. Y. *Assoc. Bacteriologist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** 1937)

Shay, Harry, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Dir. of Fels Research Inst. and Prof. of Clin. Medicine.* (**1,** 1944)

Shear, Murray J., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2,** 1930; **3,** 1953)

Sheard, Charles, Ph.D. P. O. Box 543, Rochester, Minn. *Prof. Emeritus Biophysics and Physiological Optics, Mayo Fndn., Univ. of Minnesota; Emeritus Chief of Physics and Biophysical Research, Mayo Clinic.* (**1,** 1925)

Shechmeister, I. L., Ph.D. Southern Illinois Univ., Carbondale. *Assoc. Prof. of Microbiology.* (**6,** 1951)

Sheehan, Donal, M.D., D.Sc. New York Univ.-Bellevue Med. Center, 550 First Ave , New York City. (**1,** 1938)

Sheffner, A. Leonard, Ph.D. QM Food and Container Inst. for the Armed Forces, 1819 W. Pershing Rd., Chicago 9, Ill. *Technical Coordinator for Research on Radiation Preservation of Foods.* (**2,** 1954)

Shelesnyak, M. C., Ph.D. Weizmann Inst. of Science, Dept. of Exper. Biology, Rehovoth, Israel. *Associate.* (**1,** 1948)

Shelley, Walter B., Ph.D., M.D. Univ. of Penn-

sylvania Hospital, 3400 Spruce St., Philadelphia 4. *Prof. of Dermatology.* (1, 1946)

Shelton, Emma, Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Biologist.* (4, 1957)

Shemin, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (2, 1944)

Shepard, Charles C., M.D. Public Health Service, P.O. Box 61, Montgomery 1, Alabama. *Med. Dir.* (6, 1951)

Shepard, Richard H., M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Environmental Medicine; Instr. in Medicine.* (1, 1956)

Sheppard, C. W., Ph.D. Univ. of Tennessee, Div. of Physiology, Memphis 3. *Assoc. Prof.* (1, 1950)

Sheppard, Fay, M.S. Univ. of Oklahoma Med. School, Oklahoma City. *Instr. in Biochemistry.* (2, 1936)

Sherman, F. G., Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Professor.* (1, 1950)

Sherman, William C., Ph.D. Chas. Pfizer and Co., Terre Haute, Ind. (5, 1949)

Sherrod, Theodore R., Ph.D., M.D. Univ. of Illinois, College of Medicine, 1853 West Polk St., Chicago 12. *Assoc. Prof. of Pharmacology.* (3, 1952)

Sherry, Sol, M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Medicine.* (1, 1955)

Sherwin, Carl Paxson, Sc.D., M.D., Dr. P.H. Whippleville, N. Y. *Consultant, Med. Dept., Hyde Memorial Hospital, Malone, N. Y.* (2R, 1917)

Sherwood, Noble P., Ph.D., M.D. Lawrence Mem. Hosp., Lawrence, Kans. *Pathologist.* (6, 1928)

Sherwood, Thomas Cecil, Ph.D., M.D. 2133 Octavia, New Orleans 15, La. *Fellow in Anesthesia, Ochsner Fndn. Hosp.* (1, 1938)

Shettles, Landrum B., Ph.D., M.D. Columbia Univ., College of Physicians and Surgeons, Box 330, 622 W. 168th St., New York City. *Asst. Prof. of Clin. Obstetrics and Gynecology.* (1, 1946)

Shideman, Frederick E., Ph.D., M.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison 6. *Prof. and Chairman, Dept. of Pharmacology and Toxicology.* (3, 1944)

Shilling, Charles W., M.D. Atomic Energy Commission, Washington 25, D. C. *Dep. Dir., Div. of Biology and Medicine.* (1, 1955)

Shils, Maurice E., Sc.D. 439 Sagamore Ave., Teaneck, N. J. *Student, N. Y. Univ. College of Medicine.* (5, 1950)

Shimkin, Michael Boris, M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chief of Biometry Branch.* (4, 1940)

Shinowara, George Y., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Prof. and Chief of Div. of Chem. Pathology.* (2, 1949)

Shipley, Reginald A., M.D. Veterans Admin. Hospital, 7300 York Rd., Cleveland 30, Ohio. *Dir., Radioisotope Unit.* (1, 1945)

Shipley, Robert E., M.D. Lilly Lab. for Clin. Research, Indianapolis General Hospital, Indianapolis, Ind. *Physiologist.* (1, 1945)

Shirley, Ray L., Ph.D. Univ. of Florida, Nutrition Lab., Gainesville. *Prof. of Animal Husbandry and Nutrition.* (5, 1957)

Shive, William, Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Prof. of Chemistry.* (2, 1943)

Shlaer, Simon, Ph.D. Box 1663, Los Alamos, N. M. *Staff Member, Los Alamos Scientific Lab.* (1, 1938)

Shock, Nathan W., Ph.D. Baltimore City Hospitals, Baltimore 24, Md. *Chief, Gerontology Br., USPHS, Natl. Insts. of Health, Bethesda, Md.* (1, 1942)

Shoemaker, Harold A., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City 4. *Prof. of Pharmacology.* (3, 1941)

Shope, Richard E., M.D. Ridge Road, Kingston, N. J. *Member, Rockefeller Inst.* (4, 1934)

Shore, Parkhurst A., Ph.D. Natl. Heart Inst., Lab. of Chemical Pharmacology, NIH, Bethesda 14, Md. *Head, Sec. on Biochemistry of Drug Action.* (3, 1956)

Shreeve, Walton W., M.D., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Scientist, Med. Dept.* (2, 1955)

Shrigley, E. W., Ph.D., M.D. Indiana Univ. Med. Center, Dept. of Microbiology, 1100 W. Michigan St., Indianapolis 7. *Prof. and Chairman of Dept.* (6, 1946)

Shubik, Philippe, Ph.D., B.M.B., Ch.D. Chicago Med. School, Chicago 8, Ill. *Assoc. Prof. of Surgery; Dir., Div. of Oncology.* (4, 1956)

Shulman, Sidney, Ph.D. Univ. of Buffalo School of Medicine, Dept. of Bacteriology and Immunology, Buffalo 14, N. Y. *Asst. Prof. of Immunochemistry.* (2, 1953)

Shwartzman, Gregory, M.D. 230 E. 50th St., New York City. *Prof. of Microbiology, Columbia Univ.* (4, 1929; 6, 1930)

Sichel, F. J. M., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Physiology and Biophysics.* (1, 1939)

Sickles, Grace M., B.A. 2201 Twelfth St., Troy, N. Y. *Assoc. Research Scientist, Div. of Labs. and Research, New York State Dept. of Health.* (6, 1932)

Sickles, Gretchen R., A.B. New York State Dept. of Health, Div. of Labs. and Research, Albany, N. Y. *Assoc. Bacteriologist.* (6, 1937)

Siebenmann, Charles O., D.Eng. Connaught Med. Research Labs., Univ. of Toronto, Toronto

5, Ontario, Canada. *Research Assoc.; Lecturer in Microbiology.* (3, 1946)

Siebens, Arthur A., M.D. State Univ. of New York Med. Center at New York, Dept. of Physiology, Brooklyn 2. *Assoc. Prof.* (1, 1952)

Siebert, Walter J., M.D. Lutheran Hospital, St. Louis, Mo. *Dir. of Labs.; Pathologist; Asst. Prof., Washington Univ.* (4, 1932)

Siegmund, Otto Hanns, D.V.M. Merck Sharp & Dohme Research Labs., Animal Science Research, Rahway, N. J. *Mgr., Literature Sec.* (3, 1950)

Siekevitz, Philip, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave. New York City 21. *Associate.* (2, 1954)

Sigel, M. Michael, Ph.D. School of Medicine, Univ. of Miami, Coral Gables, Fla. *Assoc. Prof., Dept. of Bacteriology; Dir., Virus Diagnostic Lab., Variety Children's Hosp.* (6, 1950)

Sigg, Ernest Beat, M.D. Geigy Chemical Corp., Dept. of Pharmacology, Ardsley-on-Hudson, N. Y. *Chief Pharmacologist.* (1, 1957)

Silber, Robert H., Ph.D. Merck Inst., Rahway, N. J. *Dir. of Endocrinology.* (2, 1948)

Silberberg, Martin, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Assoc. Prof. of Pathology, Washington Univ. School of Medicine; Sr. Pathologist, Hospital Div., City of St. Louis.* (4, 1944)

Silberberg, Ruth, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Assoc. Prof. of Pathology, Washington Univ. School of Medicine; Sr. Pathologist, Hospital Div., City of St. Louis.* (4, 1944)

Silverman, Milton, Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Sr. Scientist.* (2, 1950)

Silverman, Myron S., Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Prin. Bacteriologist.* (6, 1957)

Silvette, Herbert, Ph.D. "Low Gear," Stanardsville, Va. *Visiting Prof. of Theoretical Pharmacology, Med. College of Virginia, Richmond.* (1, 1933; 3, 1940)

Simmonds, Sofia, Ph.D. Yale Univ., School of Medicine, Dept. of Biochemistry, 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Biochemistry and Microbiology.* (2, 1948)

Simmons, Daniel Harold, M.D., Ph.D. VA Ctr., Los Angeles 25, Calif. *Chief, Respiratory Unit; Assoc. Prof. of Medicine and Asst. Prof. of Physiology, UCLA Med. Ctr.* (1, 1957)

Simon, Eric J., Ph.D. Payne Whitney Clinic, New York Hosp., New York City 21. *Research Assoc. of Biochemistry, Cornell Univ. Med. College.* (2, 1957)

Simonds, James P., Ph.D., M.D. 2150 Lincoln Park West, Chicago 14, Ill. *Prof. Emeritus of Pathology, Northwestern Univ. Med. School.* (4, prior to 1920)

Simonsen, Daisy G., Ph.D. City of Hope Med. Ctr., Dept. of Biochemistry, Duarte, Calif. *Research Assoc.* (2, 1949)

Simonson, Ernst, M.D. Univ. of Minnesota, Dept. of Ophthalmology, Minneapolis 14. *Assoc. Prof. of Physiological Ophthalmology.* (1, 1941)

Simpson, Melvin V., Ph.D. Yale Univ. School of Medicine, Dept. of Biochemistry, New Haven, Conn. *Assoc. Prof.* (2, 1955)

Simpson, Miriam E., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Anatomy.* (1, 1946)

Sinclair, Hugh, M.D. Univ. of Oxford, Oxford, England. *Dir., Lab. of Human Nutrition.* (5, 1953)

Sinex, F. Marott, Ph.D. Boston Univ. School of Medicine, Dept. of Biochemistry, Boston, Mass. *Prof. and Chairman of Dept.* (2, 1956)

Singal, Sam A., Ph.D. Med. College of Georgia, Augusta. *Prof. of Biochemistry.* (2, 1948; 5, 1955)

Singer, Ira, Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Assistant.* (4, 1956)

Singer, Leon, Ph.D. Univ. of Minnesota, Dept. of Physiological Chemistry, Millard Hall, Minneapolis. *Asst. Prof.* (2, 1957)

Singer, S. Jonathan, Ph.D. Yale Univ., New Haven, Conn. *Assoc. Prof. of Physical Chemistry.* (2, 1957)

Singer, Thomas P., Ph.D. Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research, Henry Ford Hosp., Detroit 2, Mich. *Head, Enzyme Div.* (2, 1948)

Singher, H. O., Ph.D. Ortho Research Fndn., Raritan, N. J. *Dir., Div. of Biochemistry.* (1, 1956)

Sinsheimer, Robert L., Ph.D. California Inst. of Technology, Div. of Biology, Pasadena 4. *Prof. of Biophysics.* (2, 1953)

Sirota, Jonas H., M.D. 120 North 4th St., San Jose 12, Calif. (1, 1951)

Sizer, Irwin W., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biochemistry; Head, Dept. of Biology.* (1, 1944; 2, 1955)

Sjoerdsma, Albert, M.D., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Sr. Investigator.* (3, 1957)

Skelton, Floyd Reginald, M.D., Ph.D. Louisiana State Univ. School of Medicine, New Orleans. *Assoc. Prof. of Pathology; Dir., Urban Maes Research Fndn. and Lab.* (4, 1954)

Skinner, John Taylor, Ph.D. Tennessee Polytechnic Inst., Dept. of Chemistry, Cookeville. (2, 1946)

Skipper, Howard E., Ph.D. Southern Research Inst., 2000-9th Ave., So., Birmingham, Ala. *Asst. Dir.* (2, 1953)

Skoog, Folke, Ph.D. Univ. of Wisconsin, Dept. of Botany, Madison 6. *Professor.* (2, 1956)

Slater, Irwin H., M.D. Lilly Research Labs. Indianapolis 6, Ind. (3, 1951)

Sleator, William, Jr., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Biophysics in Physiology.* (**1,** 1956)

Slein, Milton W., Ph.D. 102 Norva Ave., Frederick, Md. *Biochemist, Fort Detrick.* (**2,** 1953)

Sloane, Nathan H., Ph.D. Natl. Drug Co., Research Div., Philadelphia 44, Pa. *Dir. of Biochemical Virology.* (**2,** 1954)

Slomka, Myron B., Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Asst. Prof. of Pharmacology* (**3,** 1955)

Sloviter, Henry A., Ph.D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Biochemistry.* (**2,** 1954)

Smadel, Joseph Edwin, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Assoc. Dir.* (**4,** 1940; **6,** 1937)

Small, James C., M.D. 101 S. 39th St., Philadelphia, Pa. (**4,** 1927)

Smetana, Hans F., M.D. % Amer. Embassy, New Delhi, India. *Pathologist, Delhi Univ.* (**4,** 1934)

Smith, Arthur H., Ph.D. Wayne State Univ. College of Medicine, Detroit 7, Mich. *Prof. and Head of Dept. of Physiological Chemistry.* (**2,** 1921; **5,** 1933)

Smith, Austin Edward, M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Editor, J.A.M.A.* (**3,** 1942)

Smith, C. A., Ph.D. 82 N. Summit St., Bergenfield, N. J. (**1R,** 1921)

Smith, Carl C., Ph.D. Christ Hospital, Inst. of Med. Research, Cincinnati 19, Ohio. *Research Assoc. in Pharmacology; Asst. Prof., Univ. of Cincinnati College of Medicine.* (**3,** 1951)

Smith, Cedric M., M.D. Univ. of Illinois College of Medicine, Dept. of Pharmacology, Chicago. *Asst. Prof.* (**3,** 1955)

Smith, David T., M.D. Duke Hospital, Durham, N. C. *Prof. of Microbiology and Assoc. Prof. of Medicine.* (**5,** 1943; **6,** 1949)

Smith, Dietrich Conrad, Ph.D. Univ. of Maryland School of Medicine, 522 W. Lombard St., Baltimore 1. *Prof. of Physiology; Assoc. Dean, Medical School.* (**1,** 1937)

Smith, Donn L., Ph.D. Univ. of Colorado School of Medicine, Dept. of Pharmacology, 4200 E. Ninth Ave., Denver. *Assoc. Prof.* (**3,** 1953)

Smith, Douglas E., Ph.D. Argonne Natl. Lab., P.O. Box 299, Lemont, Ill. *Assoc. Physiologist.* (**1,** 1947)

Smith, Durwood James, M.D. Univ. of Vermont, College of Medicine, Burlington. *Prof. of Pharmacology.* (**1,** 1952; **3,** 1955)

Smith, Edwin L., Ph.D. Univ. of Texas Dental Branch, Dept. of Physiology, Houston. *Prof. and Chairman of Dept.* (**1,** 1948)

Smith, Elinor Van Dorn, Ph.D. 56 Middle St., Hadley, Mass. *Prof. of Bacteriology, Smith College.* (**6,** 1940)

Smith, Elizabeth R. B., Ph.D. 4323 Murdock Mill Rd., N. W., Washington 16, D. C. (**2,** 1938)

Smith, Emil L., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Prof. of Biochemistry; Research Prof. of Medicine.* (**2,** 1946)

Smith, Erma A., Ph.D., M.D. Veterans Adm. Hospital, Cleveland 30, Ohio. *Physical Medicine.* (**1,** 1928)

Smith, Falconer, Ph.D. 9703 Cedar Lane, Bethesda, Md. *Sr. Scientist, PHS; Research in Radiobiology.* (**1,** 1950)

Smith, Frederick G., Ph.D. Iowa State College, Botany Dept., Ames. *Professor.* (**2,** 1954)

Smith, Grant Newey, Ph.D. Dow Chemical Co., Agric. Research Lab., Midland, Mich. *Biochemist.* (**2,** 1953)

Smith, H. P., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Delafield Prof. of Pathology.* (**1,** 1937; **4,** 1925)

Smith, Homer W., Sc.D. New York Univ.-Bellevue Med. Center, 550 First Ave., New York City 16. *Prof. of Physiology.* (**1,** 1923; **2,** 1930)

Smith, James John, Ph.D., M.D. Marquette Univ. School of Medicine, Milwaukee 3, Wis. *Prof. of Physiology.* (**1,** 1957)

Smith, Janice M., Ph.D. Univ. of Illinois, Dept. of Home Economics, Urbana. *Prof. of Nutrition and Head of Dept.* (**5,** 1947)

Smith, Jay A., Ph.D. Chicago Med. School, Dept. of Physiology, 710 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof.* (**1,** 1951)

Smith, John R., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Medicine.* (**1,** 1947)

Smith, Lawrence Weld, M.D. 1025 Fifth Ave., New York City 28. (**4,** 1927)

Smith, Lee Irvin, Ph.D. Univ. of Minnesota School of Chemistry, Minneapolis 14. *Prof. and Chief of Div. of Organic Chemistry.* (**2,** 1942)

Smith, Lucile, Ph.D. Univ. of Pennsylvania, Johnson Fndn., Philadelphia 4, Pa. *Asst. Prof. of Biophysics.* (**2,** 1956)

Smith, Margaret H. D., M.D. New York Univ. Med. School, 550 First Ave., New York City 16. (**6,** 1953)

Smith, Paul K., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Prof. of Pharmacology and Exec. Officer of Dept.* (**2,** 1937; **3,** 1937)

Smith, Paul W., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City 4. *Prof. of Pharmacology.* (**1,** 1933; **3,** 1951)

Smith, Philip Edward, Ph.D. Stanford Univ., Dept. of Anatomy, Stanford, Calif. (**1R,** 1923)

Smith, R. Blackwell, Jr., Ph.D. Med. College of Virginia, Richmond 19. *Prof. of Pharmacology; President.* (**3,** 1944)

Smith, Ralph G., M.D., Ph.D. Dept. of Health, Education and Welfare, Food and Drug Admin., Washington 25, D. C. *Chief, New Drug Br.; Adjunct Clin. Prof. of Pharmacology, George Washington Univ.* (**3,** 1929)

Smith, Richard T., M.D. Univ. of Texas, Southwestern Med. School, Dallas. *Assoc. Prof. of Pediatrics.* (**4,** 1957; **6,** 1957)

Smith, Robert E., Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles 24. *Assoc. Prof. of Physiology.* (**1,** 1953)

Smith, Sam C., Ph.D. Research Corp., 405 Lexington Ave., New York City 17. *Secr., Williams-Waterman Fund.* (**5,** 1957)

Smith, Sedgwick E., Ph.D. Cornell Univ., Dept. of Animal Husbandry, Ithaca, N. Y. *Professor.* (**5,** 1945)

Smith, Susan Gower, M.A. 3437 Dover Rd., Durham, N. C. (**5,** 1939)

Smith, Sybil L., A. M. 1421 44th St., N. W., Washington 7, D. C. (**5R,** 1940)

Smith, Wilbur Kenneth, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Anatomy.* (**1,** 1939)

Smith, Willie W., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1941)

Smithburn, Kenneth C., M.D. Rockefeller Foundation, 49 West 49th St., New York City 20. *Staff Member.* (**6,** 1937)

Smolens, Joseph, B.S. Children's Hospital, 1740 Bainbridge St., Philadelphia, Pa. *Assoc. Dir., Serum Exchange Div.; Asst. Prof. of Bacteriology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1943)

Smythe, C. V., Ph.D. P.O. Box 219, Bristol, Pa. *Head of Biochemistry Lab., Rohm & Haas Co.* (**2,** 1934)

Snape, William J., M.D. 573 Stevens St., Camden, N. J. (**1,** 1948)

Snedecor, James G., Ph.D. Univ. of Massachusetts, Amherst. *Prof. of Physiology.* (**1,** 1957)

Snell, Albert M., M.D. Palo Alto Clinic, 750 Northampton Ave., Palo Alto, Calif. (**4,** 1930)

Snell, Esmond E., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Professor.* (**2,** 1942; **5,** 1946)

Snider, Ray S., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. of Anatomy.* (**1,** 1949)

Snoke, John E., Ph.D. Univ. of California Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Asst. Prof.* (**2,** 1954)

Snyder, Charles D., Ph.D. 4709 Keswick Rd., Baltimore, Md. *Prof. Emeritus of Exper. Physiology, Johns Hopkins Univ.* (**1R,** 1907)

Snyder, Franklin Faust, M.D. Boston Lying-In Hospital, Boston, Mass. (**1,** 1936)

Snyder, John Crayton, M.D. Harvard School of Public Health, 1 Shattuck St., Boston 15, Mass. *Prof. of Microbiology and Dean of the Faculty.* (**6,** 1950)

Snyderman, Selma E., M.D. New York Univ. College of Medicine, Dept. of Pediatrics, New York City 16. *Assoc. Prof.* (**5,** 1953)

Sobel, Albert E., Ph.D. Jewish Hospital of Brooklyn, 555 Prospect Pl., Brooklyn 38, N. Y. *Head of Dept. of Biochemistry; Adjunct Prof. of Chemistry, Polytechnic Inst. of Brooklyn; Special Lecturer, N. Y. State Univ. College of Medicine.* (**2,** 1939)

Sober, Herbert A., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head, Physical Chemistry and Chromatography Sec., Lab. of Biochemistry.* (**2,** 1951)

Sobin, Sidney S., M.D., Ph.D. 1200 N. State St., Los Angeles 33, Calif. *Research Prof. of Medicine, College of Med. Evangelists.* (**1,** 1949)

Sobotka, Harry, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Dir., Dept. of Chemistry.* (**2,** 1932; **5,** 1933)

Sokoloff, Leon, M.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Research Pathologist.* (**4,** 1956)

Sokoloff, Louis, M.D. Natl. Inst. of Mental Health, NIH, Bethesda 14, Md. *Assoc. Chief, Sec. on Cerebral Metabolism.* (**1,** 1955)

Sollmann, Torald, M.D. 14327 Superior Rd., Cleveland 18, Ohio. *Prof. Emeritus of Pharmacology, Western Reserve Univ.* (**1R,** 1902; **2R,** 1906; **3,** 1908)

Solomon, A. K., Ph.D. Harvard Med. School, Biophysical Lab., Boston, Mass. *Assoc. Prof. of Biophysics.* (**1,** 1952)

Solotorovsky, Morris, Ph.D. 111 Rockview Ave., North Plainfield, N. J. *Merck Inst. for Therapeutic Research Rahway, N. J.; Research Assoc. in Chemotherapy.* (**6,** 1946)

Sommers, Sheldon C., M.D. Massachusetts Memorial Hosp., Boston. *Pathologist.* (**4,** 1954)

Somogyi, Michael, Ph.D. 216 S. Kingshighway, St. Louis, Mo. *Biochemist, Jewish Hospital of St. Louis.* (**2R,** 1927)

Sonenberg, Martin, M.D., Ph.D. Sloan-Kettering Inst., New York City 21. *Associate.* (**2,** 1956)

Sonnenschein, Ralph R., M.D., Ph.D. Univ. of California School of Medicine, Los Angeles 24. *Assoc. Prof. of Physiology.* (**1,** 1950)

Soodak, Morris, Ph.D. Brandeis Univ. School of Science, Waltham 54, Mass. *Visiting Asst. Prof. of Biology and Biochemistry.* (**2,** 1955)

Sorof, Sam, Ph.D. Lankenau Hosp. and Inst. for Cancer Research, Fox Chase, Philadelphia 11, Pa. *Assoc. Member.* (**2,** 1955)

Soskin, Samuel, M.D., Ph.D. 9737 Wilshire Blvd., Beverly Hills, Calif. *Assoc. Clin. Prof. of Medicine, Univ. of California at Los Angeles; Chief*

of Diabetic Service, Cedars of Lebanon Hosp. (1, 1930; 5, 1933)

Spaet, Theodore H., M.D. Montefiore Hosp., New York City 67. *Dir. of Hematology; Assoc. Prof. of Pathology, Columbia Univ. College of Physicians and Surgeons.* (1, 1956)

Spargo, Benjamin H., M.D. Univ. of Chicago, Dept. of Pathology, Chicago 37, Ill. *Asst. Prof.* (4, 1956)

Spaulding, Earle H., Ph.D. Temple Univ., School of Medicine, Broad St. at Ontario, Philadelphia 40, Pa. *Prof. and Head of Dept. of Microbiology.* (6, 1950)

Spealman, C. R., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Washington 25, D. C. *Chief, Safety Projects Branch.* (1, 1940)

Specht, Heinz, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Scientist Dir., PHS.* (1, 1941)

Spector, Harry, Ph.D. Quartermaster Food and Container Inst. for the Armed Forces, 1819 W. Pershing Rd., Chicago 9, Ill. *Chief, Nutrition Br.* (5, 1950)

Speirs, Mary, Ph.D. Univ. of Georgia, Athens. *Dean, School of Home Economics.* (5, 1949)

Speirs, Robert S., Ph.D. State Univ. of New York Med. College, 450 Clarkson Ave., Brooklyn 3. *Asst. Prof. of Anatomy.* (1, 1956)

Spencer, Joseph N., Ph.D. Smith, Kline & French Labs., Pharmacology Sec., Philadelphia 1, Pa. (3, 1951)

Spencer, Merrill P., M.D. Bowman Gray School of Medicine, Winston-Salem, N. C. *Asst. Prof. of Physiology and Pharmacology.* (1, 1954)

Sperling, Frederick, Ph.D. Sperling Labs., 2170 N. Glebe Rd., Arlington 7, Va. *Director.* (3, 1953)

Sperry, Roger W., Ph.D. California Inst. of Technology, Pasadena. *Hixon Prof. of Psychobiology.* (1, 1945)

Sperry, Warren M., Ph.D. 722 W. 168th St., New York City 32. *Principal Research Scientist (Biochemistry), N. Y. State Psychiatric Inst.; Prof. of Biochemistry, Columbia Univ.* (2, 1929)

Spicer, Samuel S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., USPHS.* (1, 1950)

Spiegel, Ernest A., M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. and Head of Dept. of Exper. Neurology.* (1, 1936)

Spiegel-Adolf, Mona, M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Colloid Chemistry.* (2, 1933)

Spiegelman, Sol, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. (1, 1946)

Spies, Tom D., M.D. Hillman Hospital, Birmingham 3, Ala. *Dir. of Nutrition Clinic.* (3, 1941; 4, 1940; 5, 1938)

Spink, Wesley W., M.D. Univ. of Minnesota Hospital, Minneapolis. *Prof. of Medicine, Univ. of Minnesota Med. School.* (6, 1940)

Spirtes, Morris A., M.D. Hahnemann Med. College, Philadelphia 2, Pa. *Assoc. Prof. of Pharmacology.* (3, 1955)

Spitzer, John J., M.D. Hahnemann Med. College and Hosp., Dept. of Physiology, Philadelphia, Pa. *Asst. Prof.* (1, 1955)

Spizizen, John, Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Asst. Prof.* (6, 1957)

Spohn, Adelaide, Ph.D. 7 New England Ave., Summit, N. J. *Nutritionist.* (5, 1933)

Spoor, Herbert J., Ph.D., M.D. 116 Parsons Blvd., Malba, L. I., N. Y. *Instr. in Medicine (Dermatology), Cornell Univ. College of Medicine.* (1, 1945)

Sprague, James Mather, Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4, Pa. *Assoc. Prof. of Anatomy.* (1, 1953)

Sprent, John F. A., D.Sc., Ph.D. Univ. of Queensland School of Vet. Science, Brisbane, Australia. *Professor.* (6, 1955)

Springer, Georg F., M.D. Univ. of Pennsylvania, Philadelphia 4. *Asst. Prof. of Immunology in Medicine; Asst. Prof. of Immunology in Microbiology, Med. School.* (6, 1956)

Sprinson, David B., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry. 630 W. 168th St., New York City 32. *Assoc. Prof.* (2, 1949)

Sproul, Edith E., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, New York City 32. *Assoc. Prof.* (4, 1941)

Sprunt, Douglas H., M.D,. Univ. of Tennessee, Memphis. *Prof. of Pathology; Head of Dept. of Pathology and Bacteriology.* (4, 1934; 6, 1936)

Spurr, Gerald B., Ph.D. Univ. of Tennessee Med. Units, Inst. of Clin. Investigation, Memphis 3. *Asst. Prof. of Clin. Physiology.* (1, 1957)

Squibb, Robert L., Ph.D. Rutgers Univ., New Brunswick, N. J. *Chairman, Poultry Dept.* (5, 1953)

Squires, Russell Dill, M.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiology, Philadelphia 4. *Asst. Prof.* (1, 1957)

Stacy, Ralph W., Ph.D. Ohio State Univ., Div. of Biophysics, Dept. of Physiology, Hamilton Hall, Columbus 10. *Assoc. Prof.* (1, 1949)

Stadie, William C., M.D. 817 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4, Pa. *Emeritus Prof. of Research Medicine, Univ. of Pennsylvania.* (2R, 1922)

Stadtman, Earl R., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Biochemist.* (2, 1951)

Stadtman, Thressa C., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chemist.* (**2,** 1957)

Stahmann, Mark A., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Professor.* (**2,** 1951)

Stamler, Frederic W., M.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Pathology.* (**4,** 1956)

Stamler, Jeremiah, M.D. Michael Reese Hospital, Med. Research Inst., Cardiovascular Dept., Chicago, Ill. *Asst. Dir.; Established Investigator, Am. Heart Assn.* (**1,** 1951)

Stanier, Roger Y., Ph.D. Univ. of California, Dept. of Bacteriology, Berkeley 4. *Professor.* (**2,** 1956)

Stanley, Wendell M., Ph.D., Sc.D. Univ. of California, Virus Lab., Berkeley 4. *Prof. of Biochemistry; Dir. of Virus Lab.* (**2,** 1936; **6,** 1957)

Stannard, James Newell, Ph.D. Univ. of Rochester Med. School, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology and Radiation Biology.* (**1,** 1938; **3,** 1953)

Stansly, Philip G., Ph.D. Detroit Inst. of Cancer Research, 4811 John R. St., Detroit 1, Mich. *Research Assoc.; Assoc. Prof. of Microbiology, Wayne State Univ. College of Medicine.* (**2,** 1950)

Stanton, Mearl F., M.D. 11705 Viers Mill Rd., Silver Spring, Md. *Lab. of Pathology, Natl. Cancer Inst.* (**4,** 1957)

Staple, Ezra, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Biochemistry.* (**2,** 1957)

Stare, Fredrick J., Ph.D., M.D. 1 Shattuck St., Boston 15, Mass. *Prof. and Head of Dept. of Nutrition, Harvard Univ.* (**2,** 1937; **5,** 1942)

Starr, Isaac, M.D. Hospital of the Univ. of Pennsylvania, Philadelphia 4. *Hartzell Research Prof. of Therapeutics.* (**1,** 1929; **3,** 1942)

Staub, Alfred, Ph.D. Univ. of Colorado Med. School, Denver. (**2,** 1956)

Stavely, Homer E., Ph.D., D.Sc. Mead Johnson & Co., Evansville 21, Ind. *Dir., Biochemical Research.* (**2,** 1952)

Stavitsky, Abram B., Ph.D., V.M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Microbiology.* (**6,** 1950)

Stavraky, George W., M.D. Univ. of Western Ontario, Med. School, London, Ontario, Canada. *Prof. of Physiology.* (**1,** 1937; **3,** 1944)

Stead, Eugene A., Jr., M.D. Duke Univ., Dept. of Medicine, Durham, N. C. (**1,** 1945)

Stearns, Genevieve, Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof. of Orthopedics.* (**2,** 1932; **5,** 1937)

Stebbins, Robert B., Ph.D. Merck Sharp & Dohme Research Labs., Merck & Co., Inc., West Point, Pa. (**4,** 1951)

Steele, Betty F., Ph.D. 1208 Henry St., Ann Arbor, Mich. (**5,** 1954)

Steele, J. Murray, M.D. Third (N.Y.U.) Research Div., Goldwater Memorial Hospital, Welfare Island, New York City 17. *Prof. of Medicine, New York Univ.; Dir. of 3rd Research Service.* (**1,** 1936)

Steele, Robert, Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, L. I., N. Y. *Biochemist.* (**2,** 1952)

Steenbock, Harry, Ph.D., Sc.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2R,** 1912; **5,** 1933)

Stefanini, Mario, M.D., D.T.M.&H. St. Elizabeth Hosp., Boston, Mass. *Dir., Joseph Stanton Mem. Labs. and Hematologist; Assoc. Prof. of Medicine, Tufts Univ.* (**1,** 1952; **4,** 1956; **6,** 1956)

Steffee, C. Harold, M.D., Ph.D. Oak Ridge Inst. of Nuclear Studies, Med. Div., Oak Ridge, Tenn. *Chief of Pathology.* (**4,** 1950)

Steggerda, F. R., Ph.D. Univ. of Illinois, 416 Natural History Bldg., Urbana. *Prof. of Physiology.* (**1,** 1934)

Steigman, Alex J., M.D. 323 E. Chestnut St., Louisville 2, Ky. *Chairman, Dept. of Pediatrics, Univ. of Louisville School of Medicine.* (**6,** 1949)

Steigmann, Frederick, M.D. 2044 Farwell Ave., Chicago 45, Ill. *Clin. Assoc. Prof. of Medicine, Univ. of Illinois, College of Medicine; Assoc. Attending Physician, Cook County Hospital.* (**3,** 1942)

Steiman, S. E., Ph.D., M.D. 23 Broad St., Lynn, Mass. (**1,** 1939)

Stein, George J., Ph.D. USOM, American Embassy, Saigon, Vietnam. (**6,** 1947)

Stein, S. N., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Physiology Div.* (**1,** 1953)

Stein, William H., Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Member.* (**2,** 1946)

Steinbach, H. Burr, Ph.D. Univ. of Chicago, Dept. of Zoology, Chicago, Ill. *Prof. of Zoology.* (**1,** 1934)

Steinberg, Bernhard, M.D. Toledo Hospital Inst. of Med. Research, Toledo, Ohio. *Director; Chief Pathologist and Dir. of Labs., Toledo Hospital.* (**4,** 1928; **6,** 1946)

Steinberg, Daniel, M.D., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chief, Sec. on Metabolism.* (**2,** 1956)

Steiner, Paul E., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1939)

Steinhardt, Jacinto, Ph.D. 4004 Laird Pl., Chevy Chase 15, Md. *Dir., Operations Evaluation Group, Mass. Inst. of Technology.* (**2,** 1939)

Steinhaus, Arthur H, Ph.D. 5315 Drexel Ave., Chicago, Ill. *Prof. of Physiology and Dean, George Williams College, Hyde Park.* (**1,** 1928)

Steinhaus, John E., M.D., Ph.D. Univ. of Wis-

consin School of Medicine, Dept. of Anesthesiology, Madison 6. *Asst. Prof.* (**3,** 1951)

Steinman, H. G., Ph.D. Natl. Inst. of Allergy and Infectious Diseases, Lab. of Clin. Investigation, NIH, Bethesda 14, Md. *Chief, Sec. on Biochemistry.* (**2,** 1954)

Stekol, Jakob A., Sc.D. Lankenau Hosp. Inst. for Cancer Research, Philadelphia 11, Pa. *Head, Dept. of Physiological Chemistry and Nutrition.* (**2,** 1936; **5,** 1952)

Stepto, Robert C. Loyola Univ. Stritch School of Medicine, Chicago, Ill. *Asst. Prof., Obstetrics and Gynecology.* (**4,** 1952)

Stern, Joseph R., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Pharmacology.* (**2,** 1952)

Stern, Kurt, M.D. Mt. Sinai Med. Research Fndn. and Hosp., 2755 W. 15th Pl., Chicago, Ill. *Dir. of Blood Center; Assoc. Prof. of Pathology, Chicago Med. School.* (**4,** 1957; **6,** 1954)

Sternberger, Ludwig A., M.D. Chem. Warfare Labs., Army Chemical Center, Md. *Acting Chief, Pathology Br.* (**6,** 1954)

Stetson, Chandler A., M.D. New York Univ.-Bellevue Med. Ctr., New York City 16. *Assoc. Prof of Pathology.* (**6,** 1957)

Stetten, DeWitt, Jr., M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. (**2,** 1944)

Stetten, Marjorie R., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Chemist (Biochemistry).* (**2,** 1947)

Stevens, Carl M., Ph.D. State College of Washington, Dept. of Chemistry, Pullman. *Prof. of Biochemistry.* (**2,** 1951)

Stevens, Kingsley M., M.D. Merck Sharp & Dohme Research Labs., West Point, Pa. *Research Assoc.* (**6,** 1955)

Stevens, S. Smith, Ph.D. Harvard Univ., Memorial Hall, Cambridge, Mass. *Prof. of Psychology; Dir. of Psychological Labs.* (**1,** 1937)

Stevenson, James A. F., M.A., M.D.C.M. Univ. of Western Ontario, London, Ontario, Canada. *Prof. and Head, Dept. of Physiology; Hon. Lecturer, Dept. of Med. Research.* (**1,** 1950)

Stewart, Dorothy R., Ph.D. Rockford College, Rockford, Ill. *Chairman, Biology Dept.* (**1,** 1947)

Stewart, Fred W., M.D. Memorial Hospital, 444 E. 68th St., New York City. *Pathologist; Prof. of Pathology, Sloan-Kettering Div., Cornell Med. School.* (**4,** 1928)

Stewart, Harold L., M.D. Natl. Cancer Inst., NIH, Bethesda, Md. *Chief, Lab. of Pathology.* (**4,** 1936)

Stewart, Peter A., Ph.D. Emory Univ., Div. of Basic Health Sciences, Physiology Dept., Emory University, Ga. *Asst. Prof.* (**1,** 1957)

Stewart, Wellington B., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Pathology.* (**4,** 1950)

Stewart, Winifred Bayard, M.D. 1930 Spruce St., Philadelphia, Pa. *Prof. of Neurology, Woman's Med. College of Pennsylvania.* (**1,** 1941)

Stickney, J. Clifford, Ph.D. West Virginia Univ. Med. Ctr., Morgantown. *Prof. of Physiology.* (**1,** 1944)

Stiebeling, Hazel K., Ph.D. USDA Agric. Research Service, Washington 25, D. C. *Dir., Inst. of Home Economics.* (**5,** 1933)

Stier, Theodore J. B., Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (**1,** 1938)

Still, Eugene U., Ph.D. Box 991, Sarasota, Fla. (**1,** 1929)

Still, Joseph W., M.D. George Washington Univ. School of Medicine, Washington 6, D.C. *Asst. Prof. of Physiology.* (**1,** 1956)

Stimmel, Benjamin F., Ph.D. Rees-Stealy Clinic Research Fndn., 2001 Fourth Ave., San Diego, Calif. *Director.* (**2,** 1947)

Stock, Aaron H., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Assoc. Prof. of Microbiology.* (**6,** 1947)

Stock, C. Chester, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 East 68th St., New York City 21. *Assoc. Dir. and Chief, Div. of Exptl. Chemotherapy.* (**2,** 1952)

Stoerk, Herbert C., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Dir. of Exptl. Pathology.* (**4,** 1948)

Stoesser, Albert V., M.D., Ph.D. Univ. of Minnesota Med. School, Mayo Memorial Bldg. Minneapolis. *Prof. of Pediatrics.* (**6,** 1949)

Stohlman, Edward F., LL.B. Natl. Insts. of Health, Bethesda 14, Md. *Assoc. Pharmacologist.* (**3,** 1948)

Stohlman, Frederick, Jr., M.D. Natl. Inst. of Arthritis and Metabolic Diseases, Lab. of Pathology and Histochemistry, NIH, Bethesda 14, Md. *Research Hematologist.* (**4,** 1956)

Stokinger, Herbert E., Ph.D. USPHS Occupational Health Field HQ, Occupational Health Program, 1014 Broadway, Cincinnati 2, Ohio. *Chief Toxicologist.* (**3,** 1950; **6,** 1947)

Stokstad, E. L. Robert, Ph.D. Amer. Cyanamid Co., Research Div., Pearl River, N. Y. *Asst. Dir., Nutrition and Physiology Dept.* (**2,** 1947; **5,** 1942)

Stoland, O. O., Ph.D. 1845 Learnard Ave., Lawrence, Kan. *Prof. of Physiology Emeritus, Univ. of Kansas.* (**1R,** 1913)

Stoll, Alice M., M.S. Naval Air Development Ctr., Johnsville, Pa. *Physiologist.* (**1,** 1955)

Stoll, Arthur, Ph.D. Sandoz, Inc., Basle 13, Switzerland. *Pres., Internatl. Union of Pure and Applied Chemistry.* (**3,** 1951)

Stollerman, Gene Howard, M.D. Northwestern Univ. Med. School, Chicago 11, Ill. *Asst. Prof. of Medicine.* (**6,** 1957)

Stone, Clement A., Ph.D. Merck Inst. for Therapeutic Research, West Point, Pa. *Dir. of Pharmacodynamics.* (**3,** 1954)

Stone, David, Ph.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. *Research Assoc.* (**2,** 1955)

Stone, Gilbert C. H. Ph.D. City College of New York, Dept. of Chemistry, Convent Ave. and 140th St., New York City 31. *Assoc. Prof.* (**2,** 1950)

Stone, Sanford H., Ph.D. Natl. Inst. of Allergy and Infectious Diseases, NIH, Bethesda 14, Md. *Lab. of Immunology.* (**6,** 1957)

Stone, William E., Ph.D. Univ. of Wisconsin, Dept. of Physiology, Madison. *Assoc. Prof. of Physiology.* (**1,** 1945)

Stoner, Richard D., Ph.D. Brookhaven Natl. Lab., Med. Dept., Upton, N. Y. *Scientist, Div. of Microbiology.* (**4,** 1957)

Storer, John B., M.D. Los Alamos Scientific Lab., Los Alamos, N. M. *Radiobiologist.* (**4,** 1952)

Stormont, Robert T., Ph.D., M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Dir., Div. of Councils of Therapy and Research.* (**3,** 1941)

Storvick, Clara A., Ph.D. Oregon State College, School of Home Economics, Corvallis. *Prof. of Foods and Nutrition and Head of Home Economics Research.* (**5,** 1947)

Stotz, Elmer H., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Biochemistry.* (**2,** 1939)

Stowell, Robert E., M.D., Ph.D. Univ. of Kansas Med. Center, Dept. of Pathology and Oncology, Kansas City 12. *Prof. and Chairman of Dept.* (**4,** 1952)

Strecker, Harold J., Ph.D. Albert Einstein College of Medicine, Dept. of Biochemistry, New York City 61. *Assoc. Prof.* (**2,** 1953)

Strehler, Bernard L., Ph.D. Natl. Inst. of Health, Gerontology Br., Baltimore City Hosps., Baltimore 24, Md. (**2,** 1955)

Strength, D. Ralph, Ph.D. St. Louis Univ., Dept. of Biochemistry, St. Louis, Mo. *Asst. Prof.* (**2,** 1956)

Strickland, Kenneth P., Ph.D. Univ. of Western Ontario, Faculty of Medicine, London, Canada. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1957)

Strittmatter, Cornelius F., Ph.D. Harvard Med. School, Boston 15, Mass. *Assoc. in Biological Chemistry.* (**2,** 1956)

Strominger, Jack L., M.D. Washington Univ. School of Medicine, Dept. of Pharmacology, St. Louis 10, Mo. *Asst. Prof.* (**2,** 1957; **3,** 1956)

Strong, Frank M., Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1941)

Struck, Harold Carl, Ph.D. 528 N. Garfield Ave., Montebello, Calif. (**1,** 1940; **3,** 1952)

Strughold, Hubertus, M.D., Ph.D. School of Aviation Medicine, Dept. of Space Medicine, Randolph AFB, Tex. *Prof. and Chief of Dept.* (**1,** 1951)

Stuart, Charles A., Ph.D. 372 Lloyd Ave., Providence, R. I. *Prof. of Biology, Brown Univ.* (**6,** 1935)

Stumpf, Paul K., Ph.D. Univ. of California, Dept. of Agricultural Biochemistry, 337 Biochemistry Virus Lab., Berkeley 4. *Prof. of Plant Biochemistry.* (**2,** 1950)

Sturgis, Cyrus Cressey, M.D. Simpson Memorial Inst., Ann Arbor, Mich. *Prof. of Medicine, Dept. of Medicine, Univ. of Michigan Hospital.* (**4,** 1927)

Sturkie, Paul D., Ph.D. Rutgers Univ., Poultry Science Dept., College of Agriculture, New Brunswick, N. J. *Prof. of Poultry Physiology and Research; Specialist in Poultry Physiology.* (**1,** 1948)

Sturtevant, F. M., Ph.D. G. D. Searle & Co., Div. of Biological Research, Chicago 80, Ill. *Research Biologist.* (**3,** 1955)

Stutzman, Jacob W., Ph.D., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Vice Pres., Research and Development.* (**1,** 1946; **3,** 1948)

Suckling, E. E., M.Sc., D.E.E. State Univ. of New York College of Medicine, Dept. of Physiology, Brooklyn 3, N. Y. *Asst. Prof. of Med. Physics.* (**1,** 1955)

Sugg, John Y., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1938)

Sulkin, S. Edward, Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Prof. and Chairman of Dept. of Microbiology.* (**6,** 1944)

Sullivan, Michael Xavier, Ph.D. Georgetown Univ., Grad. School, 37th & O Sts., N.W., Washington, D. C. *Research Prof. of Chemistry.* (**2R,** 1909)

Summerson, William H., Ph.D. USA Chemical Warfare Labs., Army Chemical Center, Md. *Dir. of Research.* (**2,** 1942)

Sunahara, Fred Akira, Ph.D. Defence Research Med. Labs., Toronto, Canada. *Defence Scientific Service Officer.* (**1,** 1957)

Sunde, M. L., Ph.D. Univ. of Wisconsin College of Agriculture, Dept. of Poultry Husbandry, Madison 6. *Professor.* (**5,** 1955)

Sunderman, F. William, M.D., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Dir., Div. of Metabolic Research and Clinical Prof. of Medicine.* (**2,** 1931)

Sundstroem, Edward S., M.D. 2491 Ellsworth St., Berkeley 4, Calif. *Prof. Emeritus, Univ. of California.* (**2R,** 1919)

Sung, Chen-Yu, Ph.D. Chinese Academy of Med.

Sciences, Dept. of Pharmacology, Peking, China. *Asst. Prof.* (**3**, 1953)

Sure, Barnett, Ph.D. Univ. of Arkansas, Fayetteville. *Head of Dept. and Prof. of Agricultural Chemistry.* (**2R**, 1923; **5**, 1933)

Surgenor, Douglas MacN., Ph.D. Harvard Med. School, Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* (**2**, 1957)

Surtshin, Adolph, M.D. 8480 Beverly Blvd., Los Angeles 54, Calif. (**1**, 1951)

Suter, Emanuel, M.D. Univ. of Florida College of Medicine, Gainesville. *Prof. of Microbiology.* (**6**, 1954)

Sutherland, Earl W., Jr., M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert, Cleveland 6, Ohio. *Prof. and Dir. of Pharmacology.* (**2**, 1950; **3**, 1957)

Sutherland, George F., M.D. Dept. of Mental Hygiene, 2218 N. Charles St., Baltimore 18, Md. *Chief, Div. of Psychiatric Education and Training.* (**1**, 1939)

Sutton, T. Scott, Ph.D. Ohio State Univ., Columbus. *Asst. Dean, College of Agriculture.* (**5**, 1936)

Sutton, William B., Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis 6, Ind. *Enzymologist.* (**2**, 1957)

Svirbely, Joseph L., Ph.D. Robert A. Taft Sanitary Engineering Ctr., Cincinnati 25, Ohio. *Toxicologist.* (**3**, 1945)

Swain, Henry H., M.D. State Univ. of New York, Upstate Med. Ctr., Dept. of Pharmacology, Syracuse. *Instructor.* (**3**, 1957)

Swain, Robert E., Ph.D. 634 Mirada Ave., Stanford, Calif. *Prof. Emeritus of Chemistry, Stanford Univ.* (**2R**, 1909)

Swan, H. J., M.B., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant in Physiology.* (**1**, 1954)

Swan, Roy Craig, Jr., M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Physiology.* (**1**, 1954)

Swann, Howard G., Ph.D. Univ. of Texas Med. School, Dept. of Physiology, Galveston. *Prof. of Physiology.* (**1**, 1940)

Swanson, Edward E., D.Sc. Eli Lilly and Co., Bio-Assay Dept., Indianapolis 6, Ind. *Head.* (**3**, 1956)

Swanson, Marjorie A., Ph.D. Bowman Gray School of Medicine, Dept. of Biochemistry, Winston-Salem 7, N. C. *Assoc. Prof.* (**2**, 1950)

Swanson, Pearl P., Ph.D. Iowa State College, Depts. of Food and Nutrition and Home Economics Research, Ames. *Prof. of Nutrition; Asst. Dir., Agric. Exper. Station.* (**5**, 1933)

Swanson, William W., M.D. 2376 E. 71st St., Chicago, Ill. *Asst. Prof. of Pediatrics, Northwestern Univ.* (**2**, 1938)

Sweat, Max L., Ph.D. Univ. of Utah College of Medicine, Dept. of Obstetrics and Gynecology, Salt Lake City. *Assoc. Research Prof.* (**2**, 1954)

Sweeney, H. Morrow, Ph.D. 5608 Bull Creek Rd., Austin, Texas. (**1**, 1939)

Swell, Leon, Ph.D. VA Center, General Med. Research, Martinsburg, W. Va. *Chief Biochemist.* (**2**, 1957)

Swendseid, Marian E., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Nutrition and Physiological Chemistry.* (**2**, 1950)

Swick, Robert W., Ph.D. Argonne Natl. Lab., Div. of Med. and Biological Research, P.O. Box 299, Lemont, Ill. *Assoc. Biochemist.* (**2**, 1957)

Swift, Marguerite N., M.S. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif., *Radiological Biologist.* (**1**, 1956)

Swift, Raymond W., Ph.D. Pennsylvania State Univ., Dept. of Animal Nutrition, University Park. *Prof. and Head of Dept.* (**5**, 1934)

Swingle, Wilbur Willis, Ph.D. Princeton Univ., Princeton, N. J. *Henry Fairfield Osborn Prof. of Biology.* (**1**, 1924)

Swinyard, Ewart A., Ph.D. Univ. of Utah, Salt Lake City. *Prof. of Pharmacology and Dir. of Pharmaceutical Research, College of Pharmacy; Lecturer in Pharmacology, College of Medicine.* (**3**, 1948)

Sydenstricker, V. P., M.D. VA Hosp., Forest Hills Div., Augusta, Ga. *Asst. Chief Med. Dir. of Research.* (**5**, 1944)

Sykes, Joseph F., Ph.D. USDA Dairy Husbandry Research Br., Beltsville, Md. *Physiologist.* (**1**, 1942)

Syverton, Jerome T., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**4**, 1940; **6**, 1947)

Szego, Clara M., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Zoology.* (**1**, 1946)

Szent-Györgyi, Albert, Ph.D., M.D. Marine Biological Lab., Inst. for Muscle Research, Woods Hole, Mass. *Research Dir.* (**2**, 1949)

Szent-Györgyi, Andrew G., M.D. Inst. for Muscle Research, Marine Biological Lab., Woods Hole, Mass. *Established Investigator, Amer. Heart Assn.* (**1**, 1956)

Szepsenwol, Josel, M.D. Univ. of Puerto Rico, School of Tropical Medicine, San Juan 22. *Assoc. Prof. of Anatomy* (**1**, 1948)

Tabor, Herbert, M.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chief, Sec. on Biochemical Pharmacology.* (**2**, 1954; **3**, 1947)

Taft, Edgar Breck, M.D. Massachusetts Gen. Hosp., Boston 14. *Assoc. Pathologist; Asst. Prof. of Pathology, Harvard Med. School.* (**4**, 1956)

Tager, Morris, M.D. Emory Univ. Dept. of Bacteriology and Immunology, Emory University, Ga. *Prof. and Chairman of Dept.* (**6**, 1948)

Taggart, John V., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine,

630 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1**, 1951)

Tahmisian, Theodore N., Ph.D. Argonne Natl. Lab., P.O. Box 299, Lemont, Ill. *Group Leader: Assoc. Biologist.* (**1**, 1951)

Tainter, M. L., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Director.* (**1**, 1929; **3**, 1927)

Talalay, Paul, M.D. Univ. of Chicago, Ben May Lab. for Cancer Research, Chicago 37, Ill. *Assoc. Prof.* (**2**, 1956)

Talbot, Samuel Armstrong, Ph.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Med. School.* (**1**, 1940)

Taliaferro, Lucy Graves, Sc.D. Univ. of Chicago, Dept. of Microbiology, Chicago 37, Ill. *Voluntary Research Assoc.; Assoc. Prof. in Microbiology.* (**6**, 1952)

Taliaferro, William H., Ph.D. Univ. of Chicago, Dept. of Microbiology, Chicago, Ill. *Eliakim H. Moore Distinguished Service Prof. of Microbiology and Chairman of Dept.* (**6**, 1930)

Tallan, Harris H., Ph.D. University of Oxford, Dept. of Biochemistry, Oxford, England. *Asst. Prof.* (**2**, 1956)

Talmage, David W., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Medicine.* (**6**, 1954)

Talmage, Roy V., Ph.D. Rice Inst., Dept. of Biology, Houston, Texas. *Professor and Chairman of Dept.* (**1**, 1954)

Tamm, Igor, M.D. Rockefeller Inst., 66th St. and York Ave., New York City 21. *Assoc. Prof. Assoc. Physician.* (**6**, 1954)

Tanenbaum, Stuart W., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Asst. Prof. of Microbiology.* (**2**, 1957)

Tang, Pei Chin, Ph.D. School of Aviation Medicine, USAF, Dept. of Physiology-Biophysics, Randolph AFB, Texas. *Physiologist.* (**1**, 1955)

Tannenbaum, Albert, M.D. Michael Reese Hospital, 29th St. & Ellis Ave., Chicago, Ill. *Dir. of Dept. of Cancer Research.* (**4**, 1942)

Tarr, H. L. A., Ph.D. Fisheries Research Board, 898 Richards St., Vancouver, B. C., Canada. *Dir., Biochemistry Dept.* (**2**, 1950)

Tarver, Harold, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Prof. of Physiological Chemistry.* (**2**, 1947)

Tasaki, Ichiji, M.D. Natl. Inst. of Neurological Diseases and Blindness, Lab. of Neurophysiology, NIH, Bethesda 14, Md. *Chief, Section on Special Senses.* (**1**, 1955)

Tashiro, Shiro, Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. Emeritus of Biological Chemistry.* (**1R**, 1913; **2R**, 1913)

Tatum, Edward L., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Member and Prof.* (**2**, 1947)

Tauber, Henry, Ph.D. Venereal Diseases Exptl. Lab., USPHS School of Public Health, Univ. of North Carolina, Chapel Hill. *Assoc. Prof. of Exptl. Medicine.* (**2**, 1933)

Taurog, Alvin, Ph.D. Univ. of California School of Medicine, Berkeley 4. *Assoc. Research Physiologist; Lecturer in Physiology.* (**2**, 1956)

Taylor, A. N., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1**, 1948)

Taylor, Alton R., Ph.D. Parke, Davis & Co., Research Div., Detroit 32, Mich. *Lab. Dir., Virology.* (**6**, 1943)

Taylor, Charles Bruce, M.D. Dept. of Pathology, Presbyterian Hosp., Chicago, Ill. *Assoc. Prof., Univ. of Illinois, College of Medicine.* (**1**, 1952; **4**, 1952)

Taylor, Clara Mae, Ph.D. Columbia Univ. Teachers' College, 525 W. 120th St., New York City 27. *Prof. of Nutrition.* (**5**, 1951)

Taylor, Craig L., Ph.D. Univ. of California, Dept. of Engineering, Los Angeles. *Prof. of Engineering and Physiology.* (**1**, 1945)

Taylor, Dermot B., M.B., B.Ch., B.A.O. Univ. of California Med. Center, Los Angeles 24. *Prof. of Pharmacology and Chairman of Dept.* (**3**, 1950)

Taylor, Fred A., Ph.D. 320 E. North Ave., N. S., Pittsburgh, Pa. *Biochemist, Singer Memorial Lab.* (**2**, 1933)

Taylor, Harold E., M.D. Univ. of British Columbia, Faculty of Medicine, Vancouver 8, Canada. *Prof. and Head, Dept. of Pathology.* (**4**, 1957)

Taylor, Haywood M., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Toxicology and Assoc. Prof. of Biochemistry; Biochemist and Toxicologist to Duke Hospital.* (**4**, 1942)

Taylor, Henry Longstreet, Ph.D. Univ. of Minnesota, School of Public Health, Minneapolis. *Wrinn Prof. of Physiological Hygiene.* (**1**, 1944)

Taylor, John Fuller, Ph.D. Univ. of Louisville, School of Medicine, Dept. of Biochemistry, Louisville 2, Ky. *Prof. and Chairman of Dept.* (**2**, 1944)

Taylor, Julius D., Ph.D. Abbott Labs., Dept. of Pharmacology, North Chicago, Ill. *Chemical Pharmacologist.* (**3**, 1953)

Taylor, M. Wight, Ph.D. New Jersey Agricultural Exper. Station, New Brunswick. *Prof. and Chairman of Dept. of Agric. Biochemistry, College of Agriculture, Rutgers Univ.* (**5**, 1944)

Taylor, Norman Burke, M.D. 21 Ardwold Gate, Toronto 10, Ontario, Canada. (**1**, 1922)

Taylor, Reginald Murray, M.D. Columbia Univ., College of Physicians and Surgeons, 722 W. 168th St., New York City 32. *Assoc., Dept. of Psychiatry; Assoc. Research Scientist, N.Y. State Psychiatric Inst.* (**1**, 1954)

Taylor, Richard M., M.D., D.P.H. Yale Univ. School of Medicine, Sec. of Preventive Medicine, New Haven, Conn. (**6,** 1949)

Taylor, Robert D., M.D. Marquette Univ. Med. School, Milwaukee, Wis. (**1,** 1945)

Taylor, Robert E., Ph.D. Natl. Inst. of Neurological Diseases and Blindness, NIH, Bethesda 14, Md. *Neurophysiologist.* (**1,** 1957)

Teague, Robert S., Ph.D., M.D. Med. College of Alabama and Univ. of Alabama School of Dentistry, Dept. of Pharmacology, Birmingham 3. *Prof. and Chairman of Dept.* (**3,** 1942)

Teasdall, Robert D., M.D., Ph.D. Johns Hopkins Hosp., Baltimore 5, Md. *Instr., Neurological Medicine.* (**1,** 1956)

Teeri, Arthur E., Ph.D. Univ. of New Hampshire, Durham. *Prof. and Chairman, Dept. of Agricultural and Biological Chemistry.* (**5,** 1953)

Telfer, William H., Ph.D. Univ. of Pennsylvania, Zoological Lab., Philadelphia. *Asst. Prof.* (**6,** 1954)

Templeton, Roy D., M.D. 133 Handley St., San Antonio, Texas. (**1,** 1935)

Ten Broeck, Carl, M.D. Bar Harbor, Maine. (**4R,** 1932)

Tenney, Stephen Marsh, M.D. Dartmouth Med. School, Hanover, N. H. *Prof. of Physiology.* (**1,** 1956)

Teply, Lester J., Ph.D. 5058 Lake Mendota Drive, Madison, Wis. *Biochemist, Wisconsin Alumni Research Fndn.* (**2,** 1950; **5,** 1954)

Tepperman, Helen M., Ph.D. State Univ. of New York, Upstate Med. Ctr., Syracuse. *Asst. Prof. of Pharmacology* (**1,** 1955)

Tepperman, Jay, M.D. State Univ. of New York, Upstate Med. Ctr., Dept. of Pharmacology, Syracuse 10, N. Y. *Prof. of Exptl. Medicine.* (**1,** 1944; **3,** 1952)

Terner, Charles, Ph.D. Worcester Fndn. for Exptl. Biology, Shrewsbury, Mass. *Asst. Research Prof. of Biology, Boston Univ.* (**2,** 1956)

Terplan, Kornel L., M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Prof. of Pathology and Head of Dept.* (**4,** 1935)

Terry, Roger, M.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Pathology. Rochester 20, N. Y. (**4,** 1949)

Thal, Alan Philip, M.B., Ph.D. Univ. of Minnesota Hosps., Dept. of Surgery, Minneapolis 14. *Asst. Prof. of Surgery; Established Investigator, Am. Heart Assn.* (**4,** 1956)

Thannhauser, S. J., M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Sr. Physician; Prof. of Clin. Medicine, Tufts Med. School.* (**2,** 1937)

Thatcher, Jonathan S., M.D., Ph.D. 750 Kains Ave., San Bruno, Calif. (**1,** 1949)

Thauer, Rudolf, M.D. W. G. Kerckhoff-Inst., d. Max-Planck-Gesellschaft, Bad Nauheim, U. S. Zone, Germany. *Dir.; Prof. and Dir., Dept. of Physiology, Univ. of Giessen.* (**1,** 1949)

Thayer, Sidney Allen, Ph.D. 1402 S. Grand Blvd., St. Louis 22, Mo. *Prof. of Biochemistry, St. Louis Univ. School of Medicine.* (**2,** 1933)

Therman, Per-Olof, M.D. 111 N. 49th St., Philadelphia 39, Pa. *Dir. of Research, Inst. of Pennsylvania Hosp.; Asst. Prof. of Neurophysiology in Psychiatry, Univ. of Pennsylvania School of Medicine.* (**1,** 1950)

Thesleff, Stephen, M.D. Univ. of Lund, Lund, Sweden. (**3,** 1953)

Thienes, Clinton H., M.D., Ph.D. Inst. of Med. Research, Huntington Memorial Hosp., Pasadena 2, Calif. *Director.* (**3,** 1928)

Thomas, Arthur W., Ph.D. Columbia Univ., New York City 27. *Prof. of Chemistry.* (**2,** 1924)

Thomas, Byron H., Ph.D. Iowa State College, Ames. *Prof. of Chemistry, Iowa Agric. Exper. Station.* (**5,** 1933)

Thomas, J. Earl, M.D. College of Med. Evangelists, Loma Linda, Calif. *Visiting Prof. of Physiology.* (**1,** 1922; **3,** 1924)

Thomas, Lewis, M.D. New York Univ., College of Medicine, New York, N. Y. *Chairman, Dept. of Pathology.* (**6,** 1950)

Thomas, Lloyd E., Ph.D. Good Samaritan Hosp., Portland 10, Ore. (**2,** 1951)

Thomas, Wilbur Addison, M.D. Washington Univ., Dept. of Pathology, St. Louis 10, Mo. *Assoc. Prof.* (**4,** 1956)

Thompson, David D., M.D. Cornell Univ. Med. College, Dept. of Medicine, New York City 21. *Assoc. Prof.* (**1,** 1956)

Thompson, Marvin R., Ph.D. 52 Davenport St., Stamford, Conn. *Pres. and Dir. of Research, Marvin R. Thompson, Inc.* (**3,** 1944)

Thompson, Randall L., Sc.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Microbiology Sec.* (**6,** 1937)

Thompson, Richard, M.D. Univ. of Colorado, 4200 E. 9th Ave., Denver 20. *Prof. of Microbiology.* (**6,** 1951)

Thompson, William R., Ph.D. 1 Darroch Rd., Delmar, N. Y. *Sr. Biochemist, Div. of Labs. and Research, New York State Dept. of Health.* (**2,** 1934)

Thomson, David Landsborough, Ph.D., D.Sc., LL.D. McGill Univ., Montreal, Quebec, Canada. *Prof. of Biochemistry and Dean of Faculty of Grad. Studies.* (**2,** 1929)

Thomson, John D., Ph.D. State Univ. of Iowa, 240 Med. Labs., Iowa City. *Assoc. Prof. of Physiology.* (**1,** 1951)

Thorn, George Widmer, M.D. Peter Bent Brigham Hospital, Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Univ.* (**1,** 1939)

Thorne, Curtis B., Ph.D. MB Division, Fort Detrick, Frederick, Md. *Chief, Microbial Physiology Branch.* (2, 1955)

Thorp, W. T. S., D.V.M., M.S. Univ. of Minnesota College of Veterinary Medicine, St. Paul 1, Minn. *Dean.* (4, 1948)

Tidwell, Herbert C., Ph.D. Univ. of Texas Southwestern Med. School, Dallas. *Prof. and Chairman of Dept. of Biochemistry.* (2, 1948; 5, 1955)

Tigertt, William David, M.D. Walter Reed Army Med. Center, Walter Reed Army Inst. of Research, Washington 12, D. C. *Dir., Div. Special Operations.* (6, 1956)

Tillett, William S., M.D. New York Univ. College of Medicine, Dept. of Medicine, 550 First Ave., New York City. *Prof. of Medicine.* (6, 1927)

Tilt, Jennie, Ph.D. 1011 Lincoln Blvd., Santa Monica, Calif. (5R, 1939)

Timiras, Paola S., M.D., Ph.D. Univ. of California School of Medicine, Dept. of Physiology, Berkeley 4. (3, 1952)

Tipson, R. Stuart, Ph.D., D.Sc. Natl. Bureau of Standards, Washington 25, D. C. *Organic Chemist.* (2, 1937)

Tipton, Samuel R., Ph.D. Univ. of Tennessee, Dept. of Zoology, Knoxville. *Prof. of Zoology.* (1, 1940)

Tislow, Richard F., M.D. Wyeth Inst. for Med. Research, P.O. Box 8299, Philadelphia 1, Pa. *Chief Pharmacologist.* (1, 1944; 3, 1950)

Titus, Elwood O., Ph.D. Natl. Heart Inst., Lab. of Chem. Pharmacology, NIH, Bethesda 14, Md. *Chief, Sec. on Organic Chemistry.* (2, 1957)

Titus, Harry W., Ph.D. Lime Crest Research Lab., R.D. 1, Box 67, Newton, N. J. *Technical Counsellor and Dir. of Research.* (2, 1929; 5, 1933)

Tobian, Louis, Jr., M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Assoc. Prof. of Medicine.* (1, 1955)

Tobias, Julian M., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (1, 1944)

Tocantins, Leandro Maués, M.D, Jefferson Med. College, Philadelphia, Pa. *Prof. of Clin. & Exptl. Medicine.* (1, 1939)

Todd, Wilbert R., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (2, 1948; 5, 1948)

Todhunter, Elizabeth Neige, Ph.D. Univ. of Alabama, University. *Dean, School of Home Economics.* (5, 1939)

Toennies, Gerrit, Ph.D. Lankenau Hospital Research Inst., Philadelphia 11, Pa. *Head, Dept. of General Biochemistry.* (2, 1934)

Tolbert, N. Edward, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (2, 1953)

Tolle, Chester D., Ph.D. Dept. of Health, Education and Welfare, Food and Drug Admin., Washington, D. C. *Asst. Dir., Div. of Nutrition.* (5, 1942)

Toman, James E. P., Ph.D. Chicago Med. School, Dept. of Physiology and Pharmacology, Chicago, Ill. *Asst. Prof.* (1, 1945; 3, 1950)

Tomarelli, Rudolph M., Ph.D. Wyeth Inst. for Med. Research, Radnor, Pa. *Sr. Investigator.* (2, 1950; 5, 1950)

Tomashefski, Joseph F., M.D. Ohio State Univ. College of Medicine, Columbus 10. *Asst. Prof. of Medicine and Physiology; Dir., Cardiopulmonary Lab. and Chief of Research, Ohio Tuberculosis Hosp.* (1, 1956)

Tomkins, Gordon M., M.D., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Sr. Surgeon, PHS.* (2, 1957)

Tomlinson, Wray Joseph, M.D. The Medical Center, Columbus, Ga. (4, 1945)

Tompkins, Edna H., M.D. Cancer Research Inst., New England Deaconess Hospital, 195 Pilgrim Rd., Boston 15, Mass. *Research Assoc.* (4, 1941)

Tompkins, Victor N., M.D. New York State Health Dept., Albany Div. of Labs. and Research, Albany 1. *Asst. Dir.; Assoc. Prof. of Pathology, Albany Med. College.* (4, 1957)

Toolan, Helene Wallace, Ph.D. Cornell Univ. Med. College, Sloan-Kettering Div., New York City 21. *Assoc. Prof. of Pathology; Assoc., Sloan-Kettering Inst.* (4, 1956)

Topper, Yale J., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. (2, 1952)

Toth, Louis A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 13. *Prof. of Physiology.* (1, 1940)

Totter, John R., Ph.D. Atomic Energy Comm., Washington 25, D. C. *Biochemist.* (2, 1946)

Tourtellotte, Dee, D.Sc. Charles B. Knox Gelatine Co., 5th and Erie Sts., Camden 2, N. J. *Research Dir.* (5, 1935)

Touster, Oscar, Ph.D. Vanderbilt Univ., School of Medicine, Dept. of Biochemistry. Nashville, Tenn. *Assoc. Prof.* (2, 1952)

Tower, Sarah Sheldon, M.D., Ph.D. 11 E. Chase St., Baltimore 2, Md. *Asst. Prof. of Psychiatry, Johns Hopkins Univ. Med. School.* (1, 1932)

Trager, William, Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Assoc. Member.* (4, 1947)

Trapold, Joseph H., Ph.D. Louisiana State Univ. Med. School, Dept. of Pharmacology, New Orleans. *Asst. Prof.* (3, 1955)

Traub, Frederick B., M.D. 405 E. 72nd St., New York City 21. *Microbiologist, Jewish Hospital of Brooklyn.* (6, 1946)

Travell, Janet, M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Clin. Pharmacology.* (3, 1933)

Travis, Lee Edward, Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Psychology.* (**1,** 1929)

Treadwell, Carleton R., Ph.D. George Washington Univ. School of Medicine, Dept. of Biochemistry, 1335 H St., N. W., Washington, D. C. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1949)

Treffers, Henry P., Ph.D. Yale Med. School, Dept. of Microbiology, New Haven, Conn. *Prof. of Microbiology.* (**6,** 1942)

Trimble, Harry C., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Edward Stickney Wood Asst. Prof. of Biological Chemistry.* (**2,** 1929; **5,** 1936)

Troll, Walter, Ph.D. New York Univ. College of Medicine, Inst. of Industrial Medicine, New York City 16. *Asst. Prof. of Industrial Medicine.* (**2,** 1957)

Truant, Aldo P., Ph.D. Astra Pharmaceutical Products, Inc., Worcester 6, Mass. *Dir., Biological Research; Assoc. Prof. of Pharmacology, Tufts Med. School.* (**3,** 1955)

Trucco, Raul E., Ph.D. Oklahoma Med. Research Fndn., Oklahoma City 4. *Assoc. Head, Psychosomatic and Neuromuscular Sec.* (**2,** 1957)

Truitt, Edward B., Jr., Ph.D. Univ. of Maryland School of Medicine, Dept. of Pharmacology, Baltimore 1. (**3,** 1955)

Trulson, Martha F., D.Sc. Harvard School of Public Health, Boston 15, Mass. *Assoc. Prof. of Nutrition.* (**5,** 1956)

Trurnit, Hans Joachim, M.D. Chemical Warfare Labs., Army Chemical Center, Md. *Chief, Physicochemical Br.* (**1,** 1950)

Tschirgi, Robert D., M.D., Ph.D. Univ. of California School of Medicine, Depts. of Physiology and Anatomy, Los Angeles 24. *Assoc. Prof.* (**1,** 1951)

Tsuji, Frederick I., Ph.D. VA Hosp., Pittsburgh 40, Pa. *Tech. Dir., Research Lab.* (**2,** 1956)

Tuba, Jules, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alberta, Canada. *Prof.* (**2,** 1950)

Tuft, Louis, M.D. 1530 Locust St., Philadelphia, Pa. *Clin. Prof. of Medicine, Temple Univ. Med. School; Chief of Clinic of Allergy and Applied Immunology, Temple Univ. Hospital.* (**6,** 1928)

Tullis, John Louis, M.D. New England Deaconess Hosp., Cancer Research Inst., Boston 15, Mass. *Pathologist.* (**4,** 1952)

tum Suden, Caroline, Ph.D. Chemical Warfare Labs., Directorate Med. Research, Army Chemical Center, Md. *Pharmacologist, Neurology Br.* (**1,** 1936)

Tunturi, Archie Robert, Ph.D., M.D. Univ. of Oregon Med School, Portland. *Asst. Prof. of Anatomy.* (**1,** 1946)

Turner, Abby H., Ph.D. Dickinson House, S. Hadley, Mass. *Emeritus Prof. of Physiology, Mount Holyoke College.* (**1R,** 1928)

Turner, Robert A., Ph.D. Sandoz Pharmaceuticals, Hanover, N. J. (**2,** 1952)

Tuttle, Waid Wright, Ph.D., Sc.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1925)

Tyler, Albert, Ph.D. California Inst. of Technology, Pasadena, Calif. *Prof. of Embryology.* (**6,** 1946)

Tyler, David B., Ph.D. Univ. of Puerto Rico, Schools of Dentistry and Medicine, Dept. of Pharmacology, San Juan 22. *Prof. and Dir. of Dept.* (**1,** 1943; **3,** 1951)

Tytell, Alfred A., Ph.D. Merck Inst. for Therapeutic Research, Cytochemistry Dept., West Point, Pa. *Research Assoc.* (**2,** 1951; **6,** 1950)

Udenfriend, Sidney, Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Chief, Lab. of Clinical Biochemistry.* (**2,** 1950; **3,** 1956)

Uhr, Jonathan W., M.D. New York Univ. College of Medicine, Dept. of Microbiology, New York City 16. *Instr.; Sr. Research Fellow, PHS.* (**6,** 1957)

Umbarger, H. Edwin, Ph.D. Harvard Med. School, Dept. of Bacteriology and Immunology, Boston 15, Mass. *Asst. Prof.* (**2,** 1954)

Umbreit, Wayne W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Assoc. Dir.* (**2,** 1947)

Underkofler, Leland A., Ph.D. Takamine Lab., Div. of Miles Labs., Inc., Clifton, N. J. *Research Director.* (**2,** 1953)

Ungar, Georges, M.D., D.Sc. U. S. Vitamin Corp., Dept. of Pharmacology, Yonkers, N. Y. *Director.* (**1,** 1950)

Unger, Lester J., M.D. New York Univ.-Bellevue Med. Ctr., New York City 28. *Dir., Blood and Plasma Bank.* (**6,** 1952)

Unglaub, Walter G., M.D. Tulane Univ. School of Medicine, New Orleans 12, La. *Assoc. Prof. of Medicine.* (**5,** 1956)

Unna, Klaus R. W., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof., and Head of Dept. of Pharmacology.* (**1,** 1941; **3,** 1944; **5,** 1942)

Upton, Arthur C., M.D. Biology Div., Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Pathologist.* (**4,** 1954)

Upton, Morgan, Ph.D. Rutgers Univ., Dept. of Psychology, New Brunswick, N. J. (**1,** 1934)

Ursillo, Richard C., Ph.D. Univ. of California Med. Ctr., Los Angeles 24. *Asst. Prof. of Pharmacology.* (**3,** 1957)

Utter, Merton F., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland, Ohio. *Professor.* (**2,** 1946)

Vahlteich, Ella McCollum, Ph.D. 310 Walnut St., Englewood, N. J. *Nutrition Specialist.* (**5,** 1933)

Valle, J. R., M.D. Escola Paulista de Medicina,

Caixa Postal 12993, São Paulo, Brazil. *Prof. of Pharmacology.* (3, 1947)

Vallee, Bert L., M.D. Peter Bent Brigham Hosp., Harvard Med. School, Biophysics Research Lab., Boston 15, Mass. *Scientific Dir.* (2, 1956)

Van Arman, C. G., Ph.D. G. D. Searle and Co., Box 5110, Chicago 80, Ill. *Pharmacologist.* (3, 1953)

Vanatta, John C., M.D. Univ. of Texas Southwestern Med. School, Dept. of Physiology, Dallas. *Assoc. Prof.* (1, 1955)

Van Bruggen, John T., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Prof. of Biochemistry.* (2, 1952)

Vander Brook, Milton J., Ph.D. The Upjohn Co., Kalamazoo 99, Mich. *Head, Dept. of Pharmacology.* (3, 1950)

van Dyke, H. B., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St. New York City 32. *Hosack Prof. of Pharmacology.* (1, 1925; 3, 1927)

van Harreveld, Anthonie, M.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* (1, 1941)

Van Itallie, Theodore B., M.D. St. Luke's Hosp., New York City 25. *Dir. of Medicine.* (5, 1956)

Van Lancker, Julien L., M.D. Univ. of Utah College of Medicine, Salt Lake City. *Asst. Prof. of Pathology.* (4, 1957)

Van Liere, Edward J., M.D., Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Prof. of Physiology and Dean.* (1, 1927)

Van Maanen, Evert Florus, Ph.D. Wm. S. Merrell Co., Cincinnati 15, Ohio. *Assoc. Dir. of Research in Charge of Biol. Sciences.* (3, 1951)

Van Middlesworth, Lester, Ph.D., M.D. Univ. of Tennessee, Memphis. *Assoc. Prof. of Physiology; Instr. of Medicine.* (1, 1948)

Van Reen, Robert, Ph.D. Naval Med. Research Inst., Natl. Naval Med. Ctr., Bethesda 14, Md. *Biochemist.* (5, 1956)

Van Slyke, Donald D., Ph.D., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chemist, Med. Dept.; Member Emeritus, Rockefeller Inst.* (2, 1908)

van Wagenen, Gertrude, Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof.* (1, 1932)

van Wagtendonk, Willem J., Ph.D. Indiana Univ., Dept. of Zoology, Bloomington. *Professor.* (2, 1946)

Van Winkle, Walton, Jr., M.D. Ethicon, Inc., Research Div., Somerville, N. J. *Dir. of Research.* (3, 1939)

Varga, Laszlo, Ph.D. 326 Main St., Winchester, Mass. *Assoc. Member, Retina Fndn., Boston.* (2, 1957)

Varney, Philip L., Ph.D. Biological Research Labs., St. Luke's Hosp., St. Louis, Mo. *Bacteriologist.* (6, 1948)

Vars, Harry M., Ph.D. Univ. of Pennsylvania Med. School, Harrison Dept. of Surgical Research, Philadelphia 4. *Prof. of Biochemistry in Surgical Research.* (2, 1935; 5, 1935)

Vaughan, John H., M.D. Med. College of Virginia, 1200 E. Broad St., Richmond. *Asst. Prof. of Medicine.* (6, 1954)

Vawter, Gordon Fuller, M.D. Children's Hosp., Boston, Mass. *Asst. Pathologist.* (4, 1956)

Velardo, Joseph Thomas, Ph.D. Yale Univ. School of Medicine, Dept. of Anatomy, New Haven 11, Conn. *Asst. Prof.* (1, 1954)

Velick, Sidney Frederick, Ph.D. Washington Univ. School of Medicine, Dept. of Biochemistry, Scott and Euclid Ave., St. Louis 10, Mo. *Assoc. Prof. of Biochemistry.* (2, 1946)

Vennesland, Birgit, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Professor.* (2, 1944)

Venning, Eleanor H., Ph.D. Univ. Clinic, Royal Victoria Hospital, Pine Ave., Montreal, Quebec, Canada. *Assoc. Prof. of Exptl. Medicine, McGill Univ.* (2, 1938)

Vernier, Robert L., M.D. Univ. of Minnesota School of Medicine, Dept. of Pediatrics, Minneapolis 14. *PHS Postdoctoral Research Fellow.* (4, 1957)

Vernier, Vernon G., M.D. Merck Inst. for Therapeutic Research, Merck & Co., Inc., West Point Pa. *Research Assoc., Physiology Dept.* (3, 1957)

Vernon, Leo P., Ph.D. Brigham Young Univ., Chemistry Dept., Provo, Utah. *Assoc. Prof.* (2, 1955)

Verzeano, Marcel, M.D. Univ. of California at Los Angeles Med. School, Dept. of Biophysics, Los Angeles 24. *Assoc. Prof.* (1, 1955)

Vestling, Carl Swensson, Ph.D. Univ. of Illinois, Noyes Lab., Urbana, Ill. *Prof. of Biochemistry.* (2, 1946)

Vickery, Hubert B., Ph.D. Connecticut Agric. Exper. Station, New Haven. *Biochemist in Charge, Dept. of Biochemistry; Lecturer in Biochemistry, Yale Univ.* (2, 1923)

Villarreal, Ramon, M.D. Escuela de Medicina Universidad de San Luis Potosi, San Luis Potosi, Mexico. *Prof. and Head, Dept. of Physiology.* (1, 1955)

Villee, Claude A., Jr., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Assoc. Prof. of Biological Chemistry.* (2, 1948)

Virtue, Robert W., Ph.D., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Prof. of Anesthesiology.* (2, 1939)

Vishniac, Wolf, Ph.D. Yale Univ., Dept. of Microbiology, 310 Cedar St., New Haven 11, Conn. *Asst. Prof.* (2, 1954)

Visscher, Frank E., Ph.D. Health Specialties, Inc. Kalamazoo, Mich. (**1,** 1947)

Visscher, Maurice B., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Physiology.* (**1,** 1927)

Visser, Donald W., Ph.D. Univ. of Southern California, Los Angeles 7. *Prof. of Biochemistry.* (**2,** 1952)

Voegtlin, Carl, Ph.D. 4700 Connecticut Ave., N. W., Washington 8, D. C. (**1R,** 1908; **2R,** 1908, **3R,** 1908)

Vogel, F. Stephen, M.D. Cornell Univ. Med College, 1300 York Ave., New York City 21. *Assoc. Prof. of Pathology.* (**4,** 1951)

Vogel, Peter, M.D. 51 East 90th St., New York City, N. Y. (**6,** 1951)

Volk, Bruno W., M.D. Jewish Chronic Disease Hosp., Isaac Albert Research Inst., Brooklyn 3, N. Y. *Director.* (**4,** 1954)

Volkin, Elliot, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (**2,** 1953)

von Frisch, Karl. Zoological Inst., Univ. of Munich, Munich, Germany. (**1H,** 1952)

von Haam, Emmerich, M.D. Ohio State Univ., Columbus. *Prof. of Pathology.* (**4,** 1938)

von Kaulla, Kurt N., M.D. Univ. of Colorado School of Medicine, Denver. *Asst. Prof. of Medicine (Research).* (**1,** 1957)

Von Korff, Richard W., Ph.D. Univ. of Minnesota, Dept. of Pediatrics, Room 423a Heart Hosp., Minneapolis 14. *Asst. Prof.* (**2,** 1954)

Von Oettingen, W. F., M.D., Ph.D. Inst. of Arthritis and Metabolic Diseases, NIH, Lab. of Pharmacology and Toxicology, Bethesda 14, Md. *Med. Officer, Toxicology.* (**3,** 1925)

Voris, LeRoy, Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec., Food and Nutrition Board.* (**5,** 1949)

Vorwald, Arthur J., Ph.D., M.D. Wayne State Univ. College of Medicine, 1401 Rivard St., Detroit 7, Mich. *Prof. of Industrial Medicine.* (**4,** 1937)

Vos, Bert J., Ph.D., M.D. Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. *Asst. Chief.* (**3,** 1941)

Wachstein, Max, M.D. St. Catherine's Hospital, Brooklyn, N. Y. *Dir. of Lab.* (**4,** 1947)

Waddell, James, Ph.D. Grasselli Chemicals Dept., E. I. du Pont de Nemours and Co., Wilmington 98, Del. *Mgr., Technical Development, Nutrition Sec.* (**2,** 1930; **5,** 1935)

Wade, Nelson, J., Ph.D. St. Louis Univ., 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Biology.* (**1,** 1956)

Waelsch, Heinrich, M.D., Sc.D. 722 West 168th St., New York City 32. *Prin. Research Pharmacologist, N. Y. State Psychiatric Inst. and Hospital; Prof. of Biochemistry, Columbia Univ.* (**2,** 1941)

Wagman, Irving H., Ph.D. Mt. Sinai Hosp., Dept. of Neurology, New York City 29. (**1,** 1946)

Wagner, Bernard M., M.D. Children's Hosp. of Philadelphia, Philadelphia 46, Pa. *Pathologist.* (**4,** 1956)

Wagner, Henry G., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Capt. MC, USN.* (**1,** 1955)

Wagner, Robert R., M.D. Johns Hopkins Univ., Dept. of Medicine, Baltimore 5, Md. *Assoc. Prof. of Medicine; Physician.* (**6,** 1953)

Wagner-Jauregg, Theodor, Ph.D. Siegfried A.G., Zofingen, Switzerland. *Chief, Research Dept.* (**2,** 1951)

Wainio, Walter W., Ph.D. Rutgers Univ., Bureau of Biological Research, Box 515, New Brunswick, N. J. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Waisman, Harry A., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Pediatrics, Madison 6. *Assoc. Prof. of Pediatrics.* (**2,** 1944)

Wakerlin, George E., Ph.D., M.D. Univ. of Illinois Med. School, 1853 W. Polk St., Chicago. *Prof. and Head of Dept. of Physiology.* (**1,** 1933; **3,** 1934)

Wakim, Khalil G., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant; Prof. of Physiology, Mayo Foundation.* (**1,** 1942; **3,** 1951)

Waksman, Byron H., M.D. Harvard Univ. Med. School, Boston, Mass. *Asst. Prof. in Bacteriology and Immunology.* (**6,** 1950)

Walcott, William W., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**1,** 1947)

Wald, George, Ph.D. Harvard Univ., Biological Labs., Cambridge 38, Mass. *Prof. of Biology.* (**2,** 1950)

Waldron, Jerome M., M.D. Temple Univ. School of Medicine, Dept. of Physiology, Broad and Ontario Sts., Philadelphia 40, Pa. *Assoc. Prof.* (**1,** 1952)

Walford, Roy Lee, Jr., M.D. Univ. of California School of Medicine, Los Angeles. *Asst. Prof. of Pathology.* (**4,** 1956)

Walker, A. Earl, M.D. 601 N. Broadway, Baltimore 5, Md. *Prof. of Neurological Surgery, The Johns Hopkins Univ.* (**1,** 1950)

Walker, Burnham S., Ph.D., M.D. Burbank Hosp., Fitchburg, Mass. (**2,** 1940)

Walker, James B., Ph.D. Baylor Univ. College of Medicine, Houston, Tex. *Asst. Prof. of Biochemistry.* (**2,** 1955)

Walker, Sheppard M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville, Ky. *Assoc. Prof. of Physiology.* (**1,** 1946)

Wall, Patrick David, M.A., B.M., B.Ch. Massachusetts Inst. of Technology, 20A 213, Cambridge. *Staff; Instructor, Harvard Univ.* **(1, 1953)**

Wallen-Lawrence, Zonja, Ph.D. 4534 W. Pine Blvd., St. Louis 8, Mo. **(2, 1937)**

Walser, Mackenzie, M.D. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Pharmacology and Exptl. Therapeutics, and Asst. Prof. of Medicine.* **(1, 1957)**

Walter, Annabel W. 86–42 251st St., Bellerose 6, N. Y. *Bacteriologist.* **(6, 1946)**

Walter, Carl W., M.D. 721 Huntington Ave., Boston, Mass. *Assoc. Clin. Prof. of Surgery, Harvard Med. School; Surgeon, Peter Bent Brigham Hosp.* **(4, 1942)**

Walters, Orville S., Ph.D., M.D. VA Hosp., Danville, Ill. *Staff Psychiatrist; Lecturer in Psychology, Univ. of Illinois.* **(1, 1936)**

Walton, Robert P., Ph.D., M.D. Med. College of South Carolina, Charleston 16. *Prof. of Pharmacology.* **(3, 1933)**

Walton, Seth T., V.M.D., Ph.D. State of North Carolina Lab. of Hygiene, Raleigh. *Bacteriologist.* **(6, 1936)**

Walzer, Matthew, M.D. 20 Plaza St., Brooklyn, N. Y. *Consultant in Allergy, Jewish Hospital of Brooklyn.* **(6, 1924)**

Wang, Chi Che, Ph.D., Winter VA Hosp., Topeka, Kans. *Biochemist.* **(2, 1922; 5, 1933)**

Wang, Chih Hsing, Ph.D. Oregon State College, Dept. of Chemistry, Corvallis. *Assoc. Prof.* **(2, 1955)**

Wang, G. H., Ph.D. Univ. of Wisconsin School of Medicine, Madison 6. *Project Assoc.* **(1, 1956)**

Wang, Richard I. H., M.D., Ph.D. Lilly Lab. for Clin. Research, Indianapolis General Hosp., Indianapolis 7, Ind. *Resident Physician.* **(3, 1957)**

Wang, Shih-Chun, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pharmacology, 630 W. 168th St., New York City 32. *Professor.* **(1, 1943; 3, 1952)**

Wang, Tung-yue, Ph.D. Washington Univ., Botany Dept., St. Louis 5, Mo. *Asst. Prof.* **(2, 1957)**

Wangeman, Clayton P., M.D. Associated Anesthesiologists, 1110 Harvard Ave., Seattle 22, Wash. **(3, 1946)**

Wangensteen, Owen H., M.D. Univ. Hospital, Minneapolis 14, Minn. *Prof. of Surgery, Univ. of Minnesota.* **(1, 1947; 4, 1931)**

Ward, Arthur A., Jr., M.D. Univ. of Washington, School of Medicine, Div. of Neurosurgery, Seattle. *Prof. of Surgery Neurosurgery; Head of Div.* **(1, 1949)**

Ward, Robert, M.D. New York Univ. College of Medicine, Dept. of Pediatrics, 550 First Ave., New York City 16. *Professor.* **(6, 1951)**

Ward, Walter E., Ph.D., M.D. Cutter Labs., Fourth and Parker Sts., Berkeley 10, Calif. *Med. Dir.* **(6, 1947)**

Ware, Arnold G., Ph.D. Los Angeles County Hospital, Main Lab., 1200 N. State St., Los Angeles 33, Calif. *Head Chemist; Prof., Dept. of Biochemistry, Univ. of Southern California.* **(2, 1949)**

Warner, Emory D., M.D. Med. Labs. Bldg., Iowa City, Ia. *Prof. and Head of Dept. of Pathology.* **(4, 1937)**

Warner, George F., M.D. Orange County General Hosp., Orange, Calif. *Chief of Clin. Services.* **(1, 1956)**

Warner, Homer Richards, M.D., Ph.D. Latter Day Saints Hosp., Cardiovascular Lab., Salt Lake City, Utah. *Director; Asst. Research Prof. of Physiology, Univ. of Utah.* **(1, 1957)**

Warner, Robert C., Ph.D. New York Univ. College of Medicine, 550 First Ave., New York City 16. *Assoc. Prof. of Biochemistry.* **(2, 1946)**

Warren, James V., M.D. Duke Univ., School of Medicine, Dept. of Medicine, Durham, N. C. *Prof. of Medicine.* **(1, 1947)**

Warren, Joel. Natl. Insts. of Health, Div. of Biologics Standards, Bethesda 14, Md. **(6, 1949)**

Warren, Marshall R., Ph.D. Mead Johnson Research Labs., Evansville 21, Ind. *Dir., Div. of Pharmaceutical Research and Development.* **(3, 1948)**

Warren, Shields, M.D. 194 Pilgrim Rd., Boston 15, Mass. *Prof. of Pathology, Harvard Med. School.* **(4, 1929)**

Wartman, William Bechmann, M.D. Northwestern Univ., 303 East Chicago Ave., Chicago 11, Ill. *Morrison Prof. and Chairman of Dept. of Pathology.* **(4, 1940)**

Wasserman, Karlman, Ph.D. Tulane Univ. School of Medicine, Dept. of Physiology, New Orleans, La. *Instructor.* **(1, 1954)**

Wasteneys, Hardolph, Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. Emeritus of Biochemistry.* **(2R, 1915)**

Waterman, Robert E., B.S. Schering Corp., 60 Orange St., Bloomfield, N. J. *Vice-Pres.* **(2, 1940)**

Waters, Ralph Milton, M.D. R.R. #3, Box 433, Orlando, Fla. **(3R, 1937)**

Watkin, Donald Morgan, M.D. Natl. Cancer Inst., Nutrition and Metabolism Service, NIH, Bethesda 14, Md. *Sr. Investigator.* **(1, 1957)**

Watson, Barbara K., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Research Assoc. in Bacteriology and Immunology.* **(6, 1953)**

Watson, Cecil J., M.D. University Hospital, Dept. of Medicine, Minneapolis, Minn. *Prof. of Medicine.* **(2, 1952)**

Watson, Dennis W., Ph.D. Univ. of Minnesota

Med. School, Dept. of Bacteriology and Immunology, Minneapolis. *Professor.* (**6**, 1949)

Watson, John B., Ph.D. Park Road, Woodbury, Conn. (**1**, 1907)

Wattenberg, Lee W., M.D. Univ. of Minnesota, Dept. of Pathology, Minneapolis 14. *Instructor (Lederle Med. Faculty Awardee).* (**4**, 1957)

Watts, Daniel T., Ph.D. West Virginia Univ. Med. Ctr., Dept. of Pharmacology, Morgantown. *Prof. and Head of Dept. of Pharmacology.* (**3**, 1950)

Waud, Russell A., M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3**, 1931)

Waugh, David F., Ph.D. Massachusetts Inst. of Technology, Dept. of Biology, Cambridge. *Prof. of Biophysics.* (**1**, 1943; **2**, 1956)

Way, E. Leong, Ph.D. Univ. of California Med. Center, San Francisco 22. *Prof. of Pharmacology and Toxicology.* (**3**, 1947)

Way, James L., Ph.D. Univ. of Wisconsin, Service Memorial Inst., Madison 6. *Instructor, Dept. of Pharmacology.* (**3**, 1957)

Wearn, Joseph T., M.D. University Hosps. of Cleveland, Cleveland 6, Ohio. *Dean, Western Reserve Univ. School of Medicine.* (**1**, 1921)

Weatherby, J. H., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3**, 1941)

Weaver, Lawrence C., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Pharmacologist.* (**3**, 1955)

Webb, Paul, M.D. Aero Med. Lab., Wright Air Development Ctr., Wright-Patterson AFB, Ohio. *Med. Officer, Aviation Medicine.* (**1**, 1956)

Weber, Clarence J., M.D., Ph.D. 156 Overhill Rd., Salina, Kan. (**2**, 1931)

Webster, Bruce, M.D., C.M. Cornell Univ. Med. College, 449 E. 68th St., New York City. *Assoc. Prof. of Medicine; Assoc. Attending Physician, New York Hospital.* (**5**, 1935)

Webster, George C., Ph.D. Ohio State Univ., Dept. of Agric. Biochemistry, Columbus 10, *Assoc. Prof.* (**2**, 1955)

Wégria, René, M.D. Presbyterian Hospital, Dept. of Medicine, 622 W. 168th St., New York City. *Asst. Prof. of Medicine.* (**1**, 1941; **3**, 1950)

Weichert, Charles K., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Zoology.* (**1**, 1935)

Weichsel, Manfred, M.D. 47-07 41 St., Sunnyside, L. I., N. Y. (**6**, 1953)

Weichselbaum, Theodore E., Ph.D. Washington Univ. School of Medicine, Dept. of Surgery, St. Louis 10, Mo. *Assoc. Prof. of Experimental Surgery.* (**2**, 1950)

Weigle, William O., Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh 13, Pa. *Research Assoc., Dept. of Pathology.* (**6**, 1957)

Weikel, John H., Jr., Ph.D. Mead Johnson and Co., Research Labs., Evansville 21, Ind. *Sr. Pharmacologist.* (**3**, 1957)

Weil, Alfred J., M.D. The Bronx Hospital, New York City 56. *Dir. of Dept. of Bacteriology.* (**4**, 1940.

Weil, Arthur, M.D. 115-06 Park Lane South, Kew Gardens, L. I., N. Y. (**4**, 1940)

Weil, Leopold, Ph.D. USDA Eastern Regional Research Lab., Philadelphia 18, Pa. *Head, Enzyme Unit.* (**2**, 1942)

Weil, Marvin Lee, M.D. 612 71st St., Miami Beach, Fla. (**6**, 1950)

Weimar, Virginia Lee, Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Research Worker.* (**1**, 1957)

Weinbach, Eugene C., Ph.D. Natl. Inst. of Allergy and Infectious Diseases, Lab. of Tropical Diseases, NIH, Bethesda 14, Md. *Sr. Biochemist.* (**2**, 1956)

Weinhouse, Sidney, Ph.D. Lankenau Hospital Research Inst. and Inst. for Cancer Research, Philadelphia 11, Pa. *Chairman, Div. of Biochemistry.* (**2**, 1948)

Weir, Everett G., M.D., Ph.D. 231 S. 13th Ave., Maywood, Ill. (**1**, 1941)

Weiser, Russell S., Ph.D. Univ. of Washington School of Medicine, Seattle 5. *Dept. of Microbiology, Prof. of Immunology.* (**6**, 1948)

Weisiger, James R., Ph.D. Natl. Research Council, Washington 25, D. C. *Professional Associate.* (**2**, 1956)

Weiss, A. Kurt, Ph.D. Univ. of Miami School of Medicine, Coral Gables 34, Fla. *Asst. Prof. of Physiology.* (**1**, 1957)

Weiss, Benjamin, Ph.D. New York State Psychiatric Inst., New York City 32. *Asst. Prof. at Inst. and at Columbia Univ.* (**2**, 1957)

Weiss, Charles, Ph.D., M.D. Albert Einstein Med. Center, Northern Div., York and Tabor Rds., Philadelphia, Pa. *Head, Div. of Microbiology and Serology.* (**4**, 1934; **6**, 1920)

Weiss, Emil, M.D., Ph.D. 5036 Bernard St., Chicago, Ill. *Pathologist, People's Hosp.* (**6R**, 1927)

Weiss, Harold Samuel, Ph.D. Rutgers Univ., Poultry Dept., New Brunswick, N. J. *Assoc. Prof. Poultry Physiology.* (**1**, 1957)

Weiss, Paul A., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Member and Prof. and Head, Lab. of Developmental Biology.* (**1**, 1936)

Weiss, Sidney, Ph.D. Inst. for Cancer Research, Dept. of Physiological Chemistry and Nutrition, Philadelphia 11, Pa. *Research Assoc.* (**2**, 1956)

Weissman, Norman, Ph.D. Univ. of Utah College of Medicine, Salt Lake City. *Assoc. Prof. of Pathology; Research Assoc. Prof. of Biological Chemistry.* (**2**, 1951)

Weissmann, Bernard, Ph.D. Univ. of Illinois Col-

lege of Medicine, Dept. of Biological Chemistry, Chicago 12, Ill. *Asst. Prof.* (**2**, 1956)

Welch, Arnold D., Ph.D., M.D. Yale Univ. School of Medicine, Dept. of Pharmacology, 333 Cedar St., New Haven 11, Conn. *Prof. and Chairman of Dept.* (**2**, 1950; **3**, 1942)

Welch, Henry, Ph.D. U. S. Food and Drug Admin., Rm. 6171 S. Agriculture Bldg., Washington, D. C. *Dir., Div. of Antibiotics.* (**6**, 1932)

Weld, Charles Beecher, M.D. Dalhousie Univ., Halifax, N.S., Canada. *Prof. of Physiology.* (**1**, 1936)

Weld, Mrs. Julia T. Cornell Univ. Med. College, Dept. of Public Health, New York City 21. *Research in Parasitology.* (**6**, 1920)

Weller, Thomas H., M.D. Harvard School of Public Health, Boston, Mass. *Richard P. Strong Prof. of Tropical Public Health; Head of Dept.* (**6**, 1952)

Wells, Herbert S., M.D. Veterans Hospital, 54th St. and 48th Ave. S., Minneapolis, Minn. *Dir. of Research* (**1**, 1932)

Wells, Ibert C., Ph.D. State Univ. of New York Upstate Med. Ctr., Dept. of Biochemistry, Syracuse 10. *Assoc. Prof.* (**2**, 1952)

Wells, Joseph Albert, M.D., Ph.D. Northwestern Univ. Med. School, Chicago 11, Ill. *Prof. of Pharmacology.* (**3**, 1944)

Welsh, John H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Prof. of Zoology.* (**1**, 1945)

Welt, Louis Gordon, M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Prof. of Medicine.* (**1**, 1956)

Wendel, Herbert, M.D. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia 1, Pa. *Sr. Pharmacologist.* (**3**, 1954)

Wendel, William B., Ph.D. Tulane Univ. School of Medicine, Tulane Univ. Sta., New Orleans 18, La. *Chairman, Dept. of Biochemistry.* (**2**, 1932)

Wender, Simon H., Ph.D. Univ. of Oklahoma, Dept. of Chemistry, Norman. *Research Prof. of Biochemistry.* (**2**, 1953)

Werber, Erna A., Ph.D. 170 W. 73rd St., Apt. 3D, New York City. *Chief Bacteriologist and Mycologist, Jacques Loewe Research Lab.* (**6**, 1948)

Werbin, Harold, Ph.D. Univ. of California, Dept. of Physiology, Berkeley 4. *Asst. Research Physiologist (III).* (**2**, 1957)

Werder, Alvar Arvid, Ph.D. Univ. of Kansas School of Medicine, Dept. of Med. Microbiology, Kansas City 12. *Professor.* (**4**, 1956)

Werkman, C. H., Ph.D. Iowa State College, Science Hall, Ames. *Prof. and Head of Dept. of Bacteriology.* (**2**, 1942)

Werle, Jacob M., M.D. 20911 Lorain Rd., Cleveland 26, Ohio. (**1**, 1943)

Werner, Harold W., Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati 15, Ohio. *Vice-Pres. in charge of Research.* (**3**, 1942)

Wertenberger, Grace E., Ph.D. Univ. of Indiana Dept. of Physiology, Bloomington. (**1**, 1943)

Werthessen, Nicholas T., Ph.D. Southwest Fndn. for Research and Education, P. O. Box 2296, San Antonio, Texas, *Dir. of Biology Div.; Chairman of Dept. of Physiology and Biochemistry.* (**1**, 1946)

Wertman, Kenneth, Ph.D. Univ. of Arizona, Dept. of Bacteriology, Tucson. *Prof. of Bacteriology.* (**6**, 1953)

Wertz, Anne W., Ph.D. Univ. of Massachusetts, Nutrition Research Labs., School of Home Economics, Amherst. *Prof., Research, Home Economics Nutrition.* (**5**, 1950)

Wescoe, W. Clarke, M.D. Univ. of Kansas Med. Center, Kansas City 12. *Prof. of Pharmacology and Exper. Medicine and Dean.* (**3**, 1949)

Wesson, Laurence G., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Staff Member, Div. of Sponsored Research.* (**2R**, 1929; **3**, 1932)

Wesson, Laurence G., Jr., M.D. New York Univ.-Bellevue Med. Ctr., Post-Grad. Med. School, Dept. of Medicine, New York City 16. *Assoc. Prof.* (**1**, 1949)

West, Clark D., M.D. Children's Hosp. Research Fndn., Elland and Bethesda, Cincinnati 29, Ohio. *Fellow; Assoc. Prof. of Pediatrics, Univ. of Cincinnati College of Medicine.* (**1**, 1954)

West, Edward S., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (**2**, 1925)

West, Harold D., Ph.D. Meharry Med. College, Nashville 8, Tenn. *Prof. and Head of Dept. of Biochemistry.* (**2**, 1946)

West, Theodore C., Ph.D. Univ. of Washington, Seattle 5. *Asst. Prof. of Pharmacology.* (**3**, 1955)

Westerfeld, Wilfred Wiedey, Ph.D. State Univ. of New York, Upstate Med. Ctr., Syracuse 10, N. Y. *Prof. of Biochemistry.* (**2**, 1944)

Westfall, B. A., Ph.D. Univ. of Missouri School of Medicine, Dept. of Physiology and Pharmacology, Columbia. *Prof. of Pharmacology; Chairman of Dept.* (**1**, 1949; **3**, 1950)

Westheimer, Frank H., Ph.D. Harvard Univ., Cambridge 38, Mass. *Prof. of Chemistry.* (**2**, 1957)

Weston, Jean Kendrick, M.D. Parke, Davis & Co., Detroit 32, Mich. *Dir., Dept. of Clin. Investigation.* (**4**, 1956)

Weston, Raymond E., M.D., Ph.D. 1513½ So. Fairfax Ave., Los Angeles, Calif. (**1**, 1947)

Westphal, Ulrich F., Ph.D. Army Med. Research Lab., Biochemistry Dept., Fort Knox, Ky. *Chief, Protein and Steroid Section; Assoc. Prof., Biochemistry Dept. and Adjunct Prof., Chemistry Dept., Univ. of Louisville.* (**2**, 1952)

Wetzel, Norman C., M.D. Children's Fresh Air Camp and Hospital of Cleveland, Cleveland

Heights 6, Ohio. *Consultant in Growth and Nutrition.* (5, 1952)

Weymouth, Frank W., Ph.D. Stanford Univ., Calif. *Prof. of Physiology Emeritus.* (1R, 1917)

Wheeler, Albert H., M.S., M.S.P.H., Dr.P.H. Univ. of Michigan Hospital, Dept. of Dermatology, Ann Arbor. *Asst. Prof.* (6, 1950)

Wheeler, George W., M.D. 235 E. 73rd St., New York City 21. *Clin. Specialist N. Y. City Dept. of Health.* (6R, 1920)

Wheeler, Mary W., M.A. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Assoc. Bacteriologist.* (6, 1933)

Wheelon, Homer, M.D. The Polyclinic, 920–2nd Ave., Seattle 4, Wash. (1, 1919)

Whipple, George H., M.D., Sc.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Pathology Emeritus.* (1R, 1911; 4R, 1913)

Whistler, Roy L., Ph.D. Purdue Univ., Lafayette, Ind. *Asst. Head, Biochemistry Dept.* (2, 1957)

White, Abraham, Ph.D. Albert Einstein College of Medicine, Yeshiva Univ., New York City 61. *Prof. and Chairman of Dept. of Biochemistry; Assoc. Dean.* (2, 1934; 5, 1937)

White, Abraham G., M.D. Mt. Sinai Hosp., New York City. *Asst. Attending Physician.* (1, 1955)

White, Alan G. C., Ph.D. Tulane Univ., Dept. of Biochemistry, New Orleans, La. *Assoc. Prof. of Biochemistry.* (2, 1949)

White, Chester W., Jr., M.D. Boston Lying-in Hosp., Boston, Mass. *Dir. of Anesthesia Service.* (3, 1956)

White, Florence R., Ph.D. % Dr. Julius White, Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Biochemist.* (2, 1946)

White, Frank D., Ph.D. Univ. of Manitoba, Faculty of Medicine, Bannatyne Ave., Winnipeg, Manitoba, Canada. *Prof. of Biochemistry; Biochemist, Winnipeg General Hospital.* (2R, 1931)

White, Harvey Lester, M.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. of Physiology.* (1, 1923)

White, Julius, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chief, Lab. of Physiology.* (2, 1937)

White, Paul Dudley, M.D. 264 Beacon St., Boston, Mass. (3, 1921)

White, Philip L., Sc.D. American Med. Assn., 535 N. Dearborn St., Chicago 10, Ill. *Sec., Council on Foods and Nutrition.* (5, 1957)

White, Wilfrid F., M.S. Armour and Co., Research Div., Chicago 9, Ill. *Head, Biochemistry Sec.* (2, 1957)

Whitehair, C. K., D.V.M., Ph.D. Michigan State Univ., East Lansing. *Prof., Animal Pathology.* (5, 1952)

Whitehead, Richard W., M.D. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver. *Prof. of Pharmacology.* (1, 1933; 3, 1928)

Whitehorn, William V., M.D. Univ. of Illinois College of Medicine, Chicago. *Prof. of Physiology.* (1, 1947)

Whittenberger, James L., M.D. Harvard School of Public Health, Dept. of Physiology, 55 Shattuck St., Boston 15, Mass. *Prof. and Head of Dept. of Physiology.* (1, 1949)

Whittlesey, Philip, M.D. Johns Hopkins Med. School, Dept. of Medicine; Johns Hopkins School of Hygiene and Public Health, Dept. of Microbiology, Baltimore 5, Md. (3, 1955)

Wick, Arne N., Ph.D. 615 Rosemont St., La Jolla, Calif. *Scripps Clinic and Research Fndn.* (2, 1951)

Wiedeman, Mary Purcell, Ph.D. Temple Univ. School of Medicine, Philadelphia 40, Pa. *Asst. Prof. of Physiology.* (1, 1956)

Wiener, Alexander S., M.D. 64 Rutland Rd., Brooklyn, N. Y. *Sr. Bacteriologist (Serology) to Office of Chief Med. Examiner of New York City; Asst. Prof., Dept. of Forensic Medicine, New York Univ.* (6, 1932)

Wiercinski, Floyd J., Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia, Pa. *Asst. Prof. in Physiology.* (1, 1950)

Wiersma, Cornelis A. G., Ph.D. Cambridge Univ. Cambridge, England. *Visiting Prof., Dept. of Zoology.* (1, 1941)

Wiese, Alvin C., Ph.D. Univ. of Idaho, Dept. of Agricultural Chemistry, Moscow. *Prof. and Head of Dept.* (5, 1950)

Wiese, Hilda F., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. and Consultant in Pediatric Nutrition.* (5, 1952)

Wiggers, Carl J., M.D., Sc.D. Cleveland Clinic, 2020 E. 93rd St., Cleveland 6, Ohio. *Prof. Emeritus of Physiology, Western Reserve Univ. Med. School; Hon. Prof. of Physiology, Frank E. Bunts Educational Inst.* (1R, 1907; 3R, 1909)

Wiggers, Harold C., Ph.D. Union Univ., Albany Med. College, Albany 8, N. Y. *Dean; Prof. of Physiology.* (1, 1938)

Wigodsky, Herman S., Ph.D., M.D. 420 E. Houston St., San Antonio 5, Texas. *Dir. and Clin. Lecturer, San Antonio Div., Univ. of Texas Post-Grad. Med. School.* (1, 1943)

Wikler, Abraham, M.D. NIMH Addiction Research Ctr., PHS Hospital, Lexington, Ky. *Chief, Neuropsychiatric Section* (3, 1944)

Wilber, Charles G., Ph.D. Chemical Warfare Labs., Comparative Physiology Br., Army Chemical Center, Md. *Chief.* (1, 1947)

Wilbrandt, Walther, M.D. Univ. of Berne, Dept. of Pharmacology, Berne, Switzerland. *Professor.* (3, 1956)

Wilbur, Karl M., Ph.D. Duke Univ., Dept of Zoology, Durham, N. C. *Professor.* (1, 1951)

Wilcox, Philip E., Ph.D. Univ. of Washington

School of Medicine, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (2, 1957)

Wilde, Walter S., Ph.D. Univ. of Michigan School of Medicine, Ann Arbor. *Prof. of Physiology.* (1, 1944)

Wilder, Russell M., Ph.D., M.D. Mayo Clinic, 705 Eighth Ave., S.W., Rochester, Minn. (1R, 1921; 4R, 1924; 5R, 1933)

Wilens, Sigmund L. New York Univ.-Bellevue Med. Center, 550 First Ave., New York City 16. *Prof. and Dir. of Pathology.* (4, 1952)

Wiley, Frank H., Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Pharmaceutical Chemistry.* (2, 1933)

Wilhelmi, Alfred E., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Prof. and Chairman of Dept. of Biochemistry.* (2, 1942)

Wilhelmj, Charles Martel, M.D. Creighton Univ. School of Medicine, Omaha, Neb. *Prof. of Physiology.* (1, 1931)

Wilkerson, Vernon A., M.D., Ph.D. Med. Arts Bldg., 61 K St., N. W., Washington, D. C. *Visiting Prof. and Lecturer, Dept. of Biochemistry, Howard Univ. Med. School.* (2, 1936)

Williams, Carroll M., Ph.D., M.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Prof. of Zoology.* (1, 1947)

Williams, George Z. Clinical Center, Dept. of Clinical Pathology, Natl. Insts. of Health, Bethesda 14, Md. *Chief, Dept. of Clinical Pathology.* (4, 1952)

Williams, Harold H., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Prof. and Head of Dept. of Biochemistry and Nutrition.* (2, 1938; 5, 1936)

Williams, J. W., Ph.D. Univ. of Wisconsin, Chemistry Bldg., Madison. *Prof. of Chemistry.* (2, 1944)

Williams, Jesse N., Jr., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison. *Assoc. Prof.* (2, 1951)

Williams, M. Henry, Jr., M.D. Grasslands Hosp., Valhalla, N. Y. *Director, Cardio-Respiratory Lab.* (1, 1955)

Williams, Maude F., Ph.D. Univ. of North Carolina Woman's College, Dept. of Biology, Greensboro. *Assoc. Prof. of Physiology.* (1, 1955)

Williams, Ray D., M.D. 14 Danfield Rd., Ladue, Mo. *Asst. Prof. of Clin. Medicine, Washington Univ.* (5, 1941)

Williams, Richard B., Jr., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Pathology Div.* (4, 1955)

Williams, Robert Hardin, M.D. Univ. of Washington, Dept. of Medicine, Seattle. *Prof. and Exec. Officer.* (4, 1940)

Williams, Robert R., D.Sc. 297 Summit Ave., Summit, N. J. (2R, 1919; 5, 1941)

Williams, Roger J., Ph.D. Univ. of Texas, Dept. of Chemistry, 213 Chemistry Bldg., Austin. *Prof. of Chemistry; Dir. of Biochemical Inst.* (2, 1931)

Williams, Virginia R., Ph.D. Louisiana State Univ., Food Preservation Bldg., Baton Rouge. *Assoc. Prof.* (2, 1954)

Williams, W. Lane, Ph.D. Univ. of Minnesota Med. School, Dept. of Anatomy, Minneapolis 14. *Assoc. Prof. of Anatomy.* (1, 1947; 4, 1947)

Williams, William L., Ph.D. Am. Cyanamid Co., Research Div., Pearl River, N. Y. (2, 1951)

Williams, William L., M.D. Univ. of Tennessee, Dept. of Pathology and Microbiology, Memphis. *Asst. Prof.* (4, 1956)

Williams-Ashman, H. G., Ph.D. Ben May Lab. for Cancer Research, Univ. of Chicago, Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (2, 1957)

Williamson, Martin B., Ph.D. Loyola Univ., School of Medicine, Dept. of Biochemistry, Chicago 12, Ill. *Professor.* (2, 1953)

Willmon, Thomas L., M.D. Natl. Multiple Sclerosis Soc., 270 Park Ave., New York 17, N. Y. *Med. and Scientific Dir.* (1, 1951)

Wills, J. H., Ph.D. Directorate of Med. Research, U. S. Chemical Warfare Labs., Army Chemical Center, Md. *Asst. Chief, Physiology Div.* (1, 1943; 3, 1951)

Wilson, Armine T. Alfred I. duPont Inst., Wilmington 99, Del. *Chief Bacteriologist; Pediatrician-in-Chief.* (6, 1949)

Wilson, D. Wright, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Benjamin Rush Prof. of Physiological Chemistry Emeritus.* (1R, 1915; 2, 1915)

Wilson, Eva D., Ph.D. 256 E. Irvin Ave., State College, Pa. *Prof., Dept. of Foods and Nutrition, College of Home Economics, Pennsylvania State Univ.* (5, 1947)

Wilson, Hildegard N., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Analytical Biochemist.* (2, 1955)

Wilson, Irwin B., Ph.D. 34 Garwood Rd., Fair Lawn, N. J. *Assoc. Prof., Columbia Univ., College of Physicians and Surgeons.* (2, 1952)

Wilson, J. Walter, Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Chairman of Dept. of Biology; F. L. Day Prof. of Biology.* (1, 1949; 4, 1950)

Wilson, John W., Ph.D. Wright-Patterson Air Force, Aero Med. Lab., Dayton, Ohio. *Research Physiologist.* (1, 1948)

Wilson, Louise Palmer, Ph.D. Wellesley College, Wellesley, Mass. *Prof. of Zoology and Physiology.* (1, 1956)

Wilson, P. W., Ph.D. Univ. of Wisconsin, Dept. of Bacteriology, Madison. *Prof. of Bacteriology.* (2, 1939)

Wilson, Robert H., Ph.D. USDA, Western Utilization Research and Development Div., Phar-

macology Sec., Albany 6, Calif. *Sr. Pharmacologist.* (**3,** 1957)

Wilson, T. Hastings, Ph.D., M.D. Harvard Med. School, Dept. of Physiology, Boston 15, Mass. *Associate.* (**2,** 1957)

Wilson, Victor J., Ph.D. Rockefeller Inst. for Med. Research, New York City 21. *Research Assoc.* (**1,** 1957)

Wilson, Walter L., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Asst. Prof. of Physiology and Biophysics.* (**1,** 1954)

Winbury, Martin M., Ph.D. Schering Corp., Pharmacology Dept., Bloomfield, N. J. *Sr. Pharmacologist.* (**3,** 1952)

Winder, Claude V., Sc.D. Parke Davis and Co., Detroit 32, Mich. *Research Pharmacologist.* (**1,** 1938; **3,** 1948)

Windle, William Frederick, Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Neuroanatomical Sciences.* (**1,** 1937)

Wingo, William J., Ph.D. 1924 Saulter Rd., Birmingham 9, Ala. *Assoc. Prof., Univ. of Alabama Med. College and School of Dentistry.* (**2,** 1953)

Winitz, Milton, Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chemist.* (**2,** 1956)

Winnick, Theodore, Ph.D. Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Biochemistry, Radiation Research Lab.* (**2,** 1946)

Winter, Charles A., Ph.D. Merck Inst. for Therapeutic Research, West Point, Pa. *Dir. of Physiology.* (**1,** 1940; **3,** 1952)

Winter, Irwin Clinton, Ph.D., M.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Clin. Research.* (**3,** 1941)

Winternitz, M. C., M.D. 2126 Connecticut Ave., Washington 8, D. C. (**4R,** 1913)

Winters, Wallace D., Ph.D. Marquette Univ. Med. School, Dept. of Pharmacology, Milwaukee 3, Wis. *Instructor.* (**3,** 1956)

Wintersteiner, Oskar, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir., Div. of Organic Chemistry.* (**2,** 1930)

Wintrobe, Maxwell Myer, M.D., Ph.D. 175 E. 21st St., S., Salt Lake City 15, Utah. *Prof. and Head, Dept. of Internal Medicine, Univ. of Utah College of Medicine; Dir., Lab. for Study of Hereditary and Metabolic Disorders.* (**4,** 1940)

Winzler, Richard J., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Wise, George H., Ph.D. North Carolina State College, Dept. of Animal Industry, Raleigh. *Prof. and Head of Animal Nutrition Section.* (**5,** 1951)

Wiseman, Bruce Kenneth, M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. and Chairman of Dept. of Medicine; Asst. Dir. of Med. Research.* (**4,** 1932)

Wisseman, Charles L., Jr., M.D. Univ. of Maryland Med. School, Dept. of Microbiology, Baltimore 1. *Prof. and Head of Dept.* (**6,** 1952)

Wissler, Robert W., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago 37, Ill. *Prof. of Pathology.* (**4,** 1949; **6,** 1955)

Witebsky, Ernest, M.D. Buffalo Gen. Hosp. and Univ. of Buffalo School of Medicine, Buffalo 14, N. Y. *Dist. Prof. and Head of Dept. of Bacteriology and Immunology.* (**6,** 1935)

Witt, Peter N., M.D. State Univ. of New York Upstate Med. Ctr., Syracuse. *Asst. Prof. of Pharmacology.* (**3,** 1957)

Wittenberg, Jonathan B., Ph.D. Albert Einstein College of Medicine, Dept. of Physiology, New York City 61. *Asst. Prof. of Physiology and Biochemistry.* (**2,** 1957)

Witter, Robert F., Ph.D. Univ. of Rochester School of Medicine, Dept. of Biochemistry, Rochester 20, N. Y. *Asst. Prof.* (**2,** 1951)

Wittich, Fred W., M.D. 3230 Alabama Ave., Minneapolis 16, Minn. (**6,** 1944)

Wohl, Michael G., M.D. Hahnemann Med. College, Div. of Biological Chemistry, Philadelphia 3, Pa. *Chief of Human Nutrition.* (**5,** 1953)

Wolf, Abner, M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Prof. of Neuropathology.* (**4,** 1948)

Wolf, Arnold Veryl, Ph.D. Walter Reed Army Inst. of Research, Walter Reed Army Med. Ctr., Washington 12, D. C. *Chief, Renal Sec., Dept. Cardiorespiratory Diseases.* (**1,** 1946)

Wolf, George, B.Sc., D.Phil. Univ. of Illinois, 157 Davenport Hall, Urbana. *Assoc. Prof. of Animal Nutrition.* (**2,** 1957)

Wolf, Stewart, M.D. 644 N.E. 14th St., Oklahoma City, Okla. *Prof. and Head of Dept. of Medicine.* (**1,** 1948)

Wolfe, Harold Reclus, Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Zoology.* (**6,** 1952)

Wolff, Harold G., M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Medicine, (Neurology) Cornell Univ. Med. College; Attending Physician, New York Hosp.* (**1,** 1930; **3,** 1942)

Wolff, William A., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Assoc. Prof. of Clin. Chemistry and Toxicology.* (**2,** 1947)

Wolfrom, M. L., Ph.D. Ohio State Univ., Dept. of Chemistry, Columbus 10. *Prof. of Chemistry.* (**2,** 1953)

Woll, Ephraim, M.D. The Danbury Hosp., Danbury, Conn. (**4,** 1951)

Wollenberger, Albert, Ph.D. German Academy of Sciences, Lab. of Circulation Research, Berlin-Buch, Germany. (**3,** 1951)

Wollman, Seymour H., Ph.D. Natl. Cancer Inst., Lab. of Physiology, NIH, Bethesda 14, Md. *Biophysicist.* (**1,** 1955)

Wolterink, Lester F., Ph.D. Michigan State

Univ., Dept. of Physiology, East Lansing. *Professor*. (**1**, 1951)

Womack, C. Ray, M.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Assoc. Prof. of Microbiology and Asst. Prof. of Medicine*. (**4**, 1955)

Womack, Madelyn, Ph.D. USDA, Human Nutrition Research Br., Inst. of Home Economics, Washington 25, D. C. *Biochemist*. (**5**, 1947)

Wong, Harry Y. C., Ph.D. 7211 Hilton Ave., Takoma Park 12, Md. *Asst. Prof. of Physiology, Howard Univ. School of Medicine*. (**1**, 1956)

Wood, Alan C., M.D., Johns Hopkins Hospital, Wilmer Ophthalmological Inst., Baltimore, Md. *Emeritus Prof. of Ophthalmology, Johns Hopkins Univ*. (**6**, 1918)

Wood, Earl H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology, Grad. School, Univ. of Minnesota; Consultant in Physiology, Mayo Clinic*. (**1**, 1943; **3**, 1949)

Wood, Harland G., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland 6, Ohio. *Prof. and Chairman of Dept*. (**2**, 1944)

Wood, Harrison F., M.D. Irvington House, Irvington-on-Hudson, N. Y. *Med. Dir*. (**6**, 1954)

Wood, Horatio C., Jr., M.D., Ph.M. 319 S. 41st St., Philadelphia 4, Pa. (**3R**, 1908)

Wood, John L., Ph.D. Univ. of Tennessee School of Biological Sciences, Memphis 3. *Professor and Chief, Div. of Chemistry*. (**2**, 1947)

Wood, Thomas R., Ph.D. E. I. duPont de Nemours and Co., Inc., Newark, Del. *Manager, Stine Lab*. (**2**, 1957)

Wood, Willis Avery, Ph.D. Univ. of Illinois, 460 Animal Sciences Lab., Urbana. *Assoc. Prof. of Dairy Bacteriology*. (**2**, 1954)

Woodard, Geoffrey, Ph.D. RFD #3, Herndon, Va. *Pharmacologist, Woodard Research*. (**3**, 1953)

Woodbury, Dixon M., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 12. *Assoc. Research Prof*. (**3**, 1951)

Woodbury, J. Walter, Ph.D. Univ. of Washington, School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof*. (**1**, 1952)

Woodbury, Lowell A., Ph.D. Atomic Bomb Casualty Commission, APO 354, San Francisco, Calif. *Chief Biostatistician*. (**1**, 1951)

Woodbury, Robert A., Ph.D., M.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis. *Prof. and Chief of Div. of Pharmacology*. (**1**, 1936; **3**, 1941)

Woodcock, Alan H., Ph.D. QMR & D Command, QMR & D Center, Natick, Mass. *Head, Biophysics Br*. (**1**, 1952)

Woodruff, Calvin W., M.D. Vanderbilt Univ. School of Medicine, Nashville 5, Tenn. *Asst. Prof. of Pediatrics*. (**5**, 1954)

Woods, Ella, Ph.D. 1416 N. 13th St., Boise, Idaho. *Home Economist Emerita, Univ. of Idaho*. (**2R**, 1925; **5R**, 1933)

Woods, Lauren A., M.D., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Professor*. (**3**, 1949)

Woods, Mark W., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Cytologist*. (**2**, 1954)

Woodward, Alvalyn E., Ph.D. Bay View Acres, Mt. Pleasant, S. C. *Asst. Prof. Emeritus of Zoology, Univ. of Michigan*. (**1R**, 1932)

Woodward, Edward Roy, M.D. Univ. of Florida College of Medicine, Dept. of Surgery, Gainesville. *Prof. and Dept. Chairman*. (**1**, 1957)

Woolley, D. Wayne, Ph.D., M.D. (Hon.) Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member and Professor*. (**2**, 1946; **3**, 1957; **5**, 1941)

Woolsey, Clinton N., M.D. Univ. of Wisconsin, Service Memorial Insts., Madison. *Charles Sumner Slichter Research Prof. of Neurophysiology*. (**1**, 1938)

Workman, William G., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., PHS*. (**6**, 1952)

Wortis, S. Bernard, M.D. New York Univ. College of Medicine, Dept. of Psychiatry and Neurology, New York City 16. *Prof. and Chairman of Dept.; Dir., Psychiatry and Neurology Divs., NYU-Bellevue Med. Ctr*. (**1**, 1947)

Wosilait, Walter D., Ph.D. State Univ. of New York College of Medicine, Brooklyn 3. *Asst. Prof. of Pharmacology*. (**2**, 1957)

Wotiz, Herbert H., Ph.D. Boston Univ. School of Medicine, Boston, Mass. *Assoc. Research Prof*. (**2**, 1956)

Wright, Angus, M.D. 1414 S. Hope St., Los Angeles 15, Calif. *Pathologist, California Hospital*. (**4**, 1935)

Wright, Arthur W., M.D. Albany Med. College, New Scotland Ave., Albany 8, N. Y. *Prof. of Pathology*. (**4**, 1941)

Wright, Charles Ingham, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Pharmacologist. PHS*. (**1**, 1935; **3**, 1936)

Wright, Claude-Starr, M.D. Med. College of Georgia, Dept. of Medicine, Augusta. *Assoc. Prof*. (**6**, 1953)

Wright, Ernest B., Ph.D. Univ. of Florida State College of Medicine, Gainesville. *Assoc. Prof. of Physiology*. (**1**, 1952)

Wright, George G., Ph.D. Fort Detrick, Frederick, Md. *Chief, Immunology Br., Med. Investigation Div*. (**6**, 1943)

Wright, George W., M.D. St. Luke's Hospital, 11311 Shaker Blvd., Cleveland 4, Ohio. *Head, Dept. of Med. Research*. (**1**, 1952)

Wright, Harold N., Ph.D. Univ. of Minnesota, Minneapolis 14. *Prof. of Pharmacology*. (**3**, 1931)

Wright, Lemuel D., Ph.D. Cornell Univ., Savage

Hall, Ithaca, N. Y. *Prof. of Nutrition.* (2, 1946; 5, 1946)

Wright, Paul A., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. *Assoc. Prof.* (1, 1950)

Wright, Sydney L., Ph.D. Fox Hill Farm, Jamestown, R. I. (2, 1933)

Wu, Hsein, Ph.D., S.B. 28 Adams St., Brookline, Mass. (2, 1950)

Wulff, V. J., Ph.D. Syracuse Univ., Dept. of Zoology, Syracuse, N. Y. *Prof. and Chairman of Dept. of Zoology.* (1, 1949)

Wulzen, Rosalind, Ph.D. Oregon State College, Corvallis. *Prof. Emeritus of Zoology.* (1R, 1916)

Wunder, Charles C., Ph.D. State Univ. of Iowa College of Medicine, Dept. of Physiology, Iowa City. *Asst. Prof.* (1, 1957)

Wyatt, Gerard R., Ph.D. Yale Univ. Medical School, Dept. of Biochemistry, New Haven, Conn. *Asst. Prof.* (2, 1956)

Wyman, Leland C., Ph.D. Boston Univ., College of Liberal Arts, 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (1, 1927)

Wynn, Winfrey, M.S., M.A. Emory Univ., Div. of Basic Health Sciences, Emory University, Ga. *Assoc. Prof. of Physiology.* (1, 1957)

Wynne, Arthur M., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto 5, Ontario, Canada. *Prof. of Biochemistry; Head of Dept.* (2, 1940)

Wyss, Orville, Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin. *Prof.* (2, 1951)

Yager, Robert H., V.M.D. U. S. Army Med. Unit, Fort Detrick, Md. *Asst. to the Commanding Officer.* (6, 1950)

Yagi, Yasuo, D.Sc. Roswell Park Memorial Inst., Buffalo 3, N. Y. *Sr. Cancer Research Scientist.* (6, 1957)

Yates, Francis Eugene, M.D. Harvard Medical School, Dept. of Physiology, Boston 15, Mass. *Assoc. in Physiology.* (1, 1957)

Yonkman, Fredrick F., Ph.D., M.D., D.Sc. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Vice President in charge of Research at Ciba.* (3, 1931)

Youmans, Guy P., M.D., Ph.D. Northwestern Univ. Med. School, Dept. of Bacteriology, Chicago, Ill. *Prof. and Head of Dept.* (6, 1955)

Youmans, John B., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Dean and Dir. of Med. Affairs.* (5, 1948)

Youmans, William Barton, Ph.D., M.D. Univ. of Wisconsin Med. School, Madison 6. *Prof. and Chairman of Dept. of Physiology.* (1, 1939; 3, 1949)

Young, A. G., Ph.D., M.D. 520 Commonwealth Ave., Boston 15, Mass. (3, 1925)

Young, Allan C., Ph.D. Univ. of Washington, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (1, 1952)

Young, Charlotte M., Ph.D. Cornell Univ. Graduate School of Nutrition, Ithaca, N. Y. *Prof. of Med. Nutrition.* (5, 1956)

Young, E. G., Ph.D. Natl. Research Council of Canada, Atlantic Regional Lab., Halifax, N. S. *Director.* (2, 1925)

Young, Joseph M., M.D. Kennedy VA Hosp., Memphis 15, Tenn. *Chief, Lab. Service.* (4, 1955)

Youngner, Julius Stuart, M.S., Sc.D. Univ. of Pittsburgh, School of Medicine, Dept. of Microbiology, Pittsburgh, Pa. *Assoc. Prof.* (6, 1950)

Yuile, Charles L., M.D., C.M. Univ. of California School of Medicine, Los Angeles 24. *Prof. of Pathology.* (4, 1941)

Zabin, Irving, Ph.D. Univ. of California School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Asst. Prof.* (2, 1953)

Zaffaroni, Alejandro, Ph.D. P. O. Box 2679, Mexico, D.F. *Exec. Vice-Pres., Syntex, S. A.* (2, 1954)

Zamcheck, Norman, M.D. Mallory Inst. of Pathology, Boston City Hosp., Boston, Mass. *Research Pathologist.* (4, 1954)

Zamecnik, Paul, M.D. Massachusetts General Hospital, Boston 14, Mass. *Prof. of Medicine, Harvard Univ.* (2, 1950)

Zamenhof, Stephen, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Biochemistry, 630 West 168th St., New York City 32. *Assoc. Prof.* (2, 1951)

Zapata-Ortiz, Vicente, M.D., D.M. Faculty of Medicine, Apartado No. 2694, Lima, Peru. *Prof. of Pharmacology.* (3, 1951)

Zapp, John A., Jr., Ph.D. Haskell Lab. for Toxicology and Industrial Medicine, E. I. duPont de Nemours & Co., Newark, Del. *Director.* (1, 1950)

Zarrow, M. X., Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. *Prof. of Zoology.* (1, 1949)

Zauder, Howard L., M.D., Ph.D. Albert Einstein College of Medicine, Dept. of Anesthesiology, New York City 61. (3, 1955)

Zechmeister, L., Dr. Ing. California Inst. of Technology, Pasadena. *Prof. of Organic Chemistry.* (2, 1941)

Zeckwer, Isolde T., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pathology.* (1, 1934; 4, 1927)

Zeidman, Irving, M.D. Univ. of Pennsylvania Med. School, Dept. of Pathology, Philadelphia. *Assoc. Prof.* (4, 1946)

Zeldis, Louis J., M.D. Univ. of California, Med. Center, Dept. of Pathology, Los Angeles 24. *Professor.* (4, 1945)

Zelitch, Israel, Ph.D. Connecticut Agric. Experiment Station, P. O. Box 1106, New Haven 4. *Assoc. Biochemist.* (2, 1954)

Zeller, E. Albert, M.D., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11. *Prof. of Biochemistry.* (**2**, 1951)

Zichis, Joseph, Ph.D. Markham Labs., 9246 S. Vincennes Ave., Chicago 20, Ill. *Dir.* (**6**, 1951)

Zierler, Kenneth L., M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Assoc. Prof. in Medicine, Johns Hopkins Univ.* (**1**, 1951)

Zill, Leonard P., Ph.D. Research Inst. for Advanced Studies, Inc., Baltimore 18, Md. *Sr. Scientist.* (**2**, 1957)

Zilliken, Friedrich, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Biochemistry.* (**2**, 1957)

Zilversmit, D. B., Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Professor.* (**1**, 1949)

Zimmerman, Harry M., M.D. Montefiore Hospital, New York City 67. *Chief, Lab. Div.; Prof. of Pathology, College of Physicians and Surgeons, Columbia Univ.* (**4**, 1933)

Zirkle, Raymond E., Ph.D. Univ. of Chicago, Committee on Biophysics, Chicago, Ill. *Prof. of Radiobiology.* (**1**, 1948)

Zittle, Charles A., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist; Section Chief, Protein Div.* (**2**, 1946)

Zubrod, Charles G., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. (**3**, 1952)

Zucker, Marjorie B., Ph.D. Sloan-Kettering Inst. for Cancer Research, New York City 21. *Associate.* (**1**, 1947)

Zweifach, Benjamin W., Ph.D. New York Univ., College of Medicine, Dept. of Pathology, New York City 16. (**1**, 1945)

Zwemer, Raymund L., Ph.D. UNESCO, Div. of International Cooperation for Scientific Research, Paris 16e, France. *Chief.* (**1**, 1930)

SUMMARY OF MEMBERSHIP

The American Physiological Society	1,681*
American Society of Biological Chemists	1,385
American Society for Pharmacology and Experimental Therapeutics	731
The American Society for Experimental Pathology	540
American Institute of Nutrition	457
The American Association of Immunologists	517
Total membership	5,311

*Total includes 71 members elected at 1957 Fall Meeting.

DECEASED MEMBERS

Adams, Mark (**6**, 1951) October 17, 1956
Axtmayer, Joseph (**5**, 1935) May 5, 1957
Bachem, Albert (**1R**, 1933) April 10, 1957
Barron, E. S. Guzman (**2**, 1931) June 25, 1957
Benedict, Francis G. (**1R**, 1904; **2R**, 1906) May 14, 1957
Blanchard, Ernest W. (**1**, 1946) January 30, 1957
Blankenhorn, M. A. (**4**, 1932) September 3, 1957
Chambers, Robert (**1R**, 1932) July 23, 1957
Cohn, Alfred E. (**1R**, 1911; **3**, 1913) July 20, 1957
Cori, Gerty T. (**2**, 1927) October 26, 1957
Dieckmann, William J. (**3**, 1947) August 15, 1957
Durlacher, Stanley H. (**1**, 1949; **4**, 1955) March 19, 1957
Emery, Frederick (**1**, 1930) July 9, 1957
Fairhall, Lawrence T. (**2R**, 1924) June 19, 1957
Friedman, Townsend B. (**6**, 1948) March 6, 1957
Gomori, George (**4**, 1948) February 28, 1957
Hall, John W. (**4**, 1955) March 19, 1957
Haury, Victor G. (**3**, 1939) November 11, 1955
Jamieson, Walter A. (**6R**, 1927) June 5, 1957
Keeton, Robert W. (**1**, 1916; **3**, 1924) January 22, 1957
King, Jessie L. (**1R**, 1914) March 24, 1956
Luckhardt, Arno Benedict (**1**, 1911) November 7, 1957
Marsh, David F. (**3**, 1946) April 22, 1957
Mason, Edward C. (**1**, 1935) March 5, 1957
Mathews, A. P. (**1R**, 1898; **2R**, 1906) September 21, 1957
Novy, Frederick George (**1R**, 1901; **2R**, 1906; **4R**, prior to 1919; **4H**, **6H**) August 9, 1957
Pillemer, Louis (**2**, 1950; **6**, 1942) August 31, 1957
Ratner, Bret (**6**, 1928) October 11, 1957
Schultz, William H. (**1R**, 1907; **3R**, 1909) July 23, 1955
Scott, R. W. (**1R**, 1917; **3R**, 1917) May 25, 1957
Stoughton, Roger W. (**3**, 1939) February 14, 1957
Sweet, Joshua E. (**1R**, 1913) April 8, 1957
Weller, Carl V. (**4**, 1923) December 10, 1956

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GEOGRAPHICAL LIST OF MEMBERS

ALABAMA – ALASKA – ARIZONA – ARKANSAS – CALIFORNIA

ALABAMA

AUBURN
W. D. Salmon, 2, 5
H. E. Sauberlich, 2, 5

BIRMINGHAM
S. B. Barker, 1, 3
J. M. Bruhn, 1
E. B. Carmichael, 1, 2
A. E. Casey, 4
J. D. Emerson, 1
E. E. Evans, 6
K. Hare, 1
S. P. Kent, 4
C. D. Kochakian, 1, 2
L. L. Langley, 1
J. F. A. McManus, 4
W. W. Pigman, 2
T. W. Robinson, 1
F. M. Schabel, Jr., 4
L. H. Schneyer, 1
H. E. Skipper, 2
T. D. Spies, 3, 4, 5
R. S. Teague, 3
W. J. Wingo, 2

FAIRHOPE
R. A. Lambert, 4

MONTGOMERY
K. E. Jensen, 6
C. C. Shepard, 6

TUSCALOOSA
C. Brooks, 1, 3

UNIVERSITY
B. L. Davey, 5
F. L. Meyer, 5
E. N. Todhunter, 5

ALASKA

R. J. Hock, 1
L. Irving, 1

ARIZONA

GLENDALE
B. W. Heywang, 5

PHOENIX
M. J. Blish, 2R
C. L. Hess, 1R

TUCSON
L. E. Booher, 2, 5
K. K. Jones, 1R
A. R. Kemmerer, 5
K. Wertman, 6

ARKANSAS

FAYETTEVILLE
M. C. Kik, 5
J. Sacks, 1, 3
B. Sure, 2R, 5

LITTLE ROCK
S. A. Corson, 1
P. L. Day, 2, 5
J. S. Dinning, 5
C. E. Duffy, 6
A. Nettleship, 4
H. G. Schlumberger, 4
L. D. Seager, 3

MENA
R. D. Lightbody, 2

CALIFORNIA

ALBANY
G. Alderton, 2
E. F. Jansen, 2
J. C. Lewis, 2
H. Lineweaver, 2
F. A. Loewus, 2
H. P. Lundgren, 2
S. Schwimmer, 2
R. H. Wilson, 3

ALHAMBRA
W. M. Cahill, 2

BELVEDERE
E. J. Mason, 4

BERKELEY
S. Abraham, 2
F. W. Allen, 2
C. E. Ballou, 2
H. A. Barker, 2
E. L. Bennett, 2
L. L. Bennett, 1
L. J. Bogert, 2R
H. C. Bradley, 1R, 2R
M. M. Brooks, 1
M. Calvin, 2
F. H. Carpenter, 2
I. L. Chaikoff, 1
E. E. Conn, 2
C. A. Dekker, 2
C. C. Delwiche, 2
E. L. Dobson, 1
M. Doudoroff, 2
E. L. Duggan, 2
S. S. Elberg, 6
H. M. Evans, 1R
H. O. L. Fischer, 2R
M. Flavin, 2
J. Fong, 6
H. L. Fraenkel-Conrat, 2
W. F. Ganong, 1
F. R. Goetzl, 1
D. M. Greenberg, 2
E. L. Hansen, 3
W. Z. Hassid, 2
M. Ikawa, 2
H. B. Jones, 1
M. A. Joslyn, 2
R. H. Kellogg, 1
L. S. Kelly, 1
P. L. Kirk, 2
C. A. Knight, 2
A. P. Krueger, 4, 6
E. H. Lennette, 4, 6
S. Lepkovsky, 2, 5
C. H. Li, 2
M. E. McClain, 6
A. D. McLaren, 2
A. F. Morgan, 2R, 5
J. B. Neilands, 2
M. M. Nelson, 5
J. H. Northrop, 2
R. Okey, 2, 5
H. S. Olcott, 2
N. Pace, 1
A. B. Pardee, 2
M. Rabinovitz, 2
J. C. Rabinowitz, 2
W. O. Reinhardt, 1
G. Rosenfeld, 1
M. Rothstein, 2
D. R. Sanadi, 2
H. K. Schachman, 2
V. P. Seeberg, 3
M. E. Simpson, 1
E. E. Snell, 2, 5
R. Y. Stanier, 2
W. M. Stanley, 2, 6
P. K. Stumpf, 2
E. S. Sundstroem, 2R
H. Tarver, 2
A. Taurog, 2
P. S. Timiras, 3
W. E. Ward, 6
H. Werbin, 2

BEVERLY HILLS
C. M. Agress, 1
R. W. Lippman, 1
J. Marmorston, 6
M. H. Maxwell, 1
H. H. Mitchell, 6
M. Prinzmetal, 3

BLUE LAKE
W. J. Kerr, 3R

CARMEL
R. A. Kocher, 2R

CLAREMONT
M. D. McCarthy, 1

COLTON
V. C. Bohr, 1

CORONA DEL MAR
T. L. Patterson, 1

COSTA MESA
P. M. Nelson, 5R

CULVER CITY
B. H. Ershoff, 5
M. W. Seraydarian, 1

DAVIS
A. L. Black, 2
H. H. Cole, 1
D. R. Cordy, 4
J. B. Enright, 6
G. Everson, 1
H. Goss, 2, 5
C. R. Grau, 5
M. Kleiber, 1, 5
F. H. Kratzer, 5
S. A. Peoples, 3
D. W. Peterson, 5
P. P. T. Sah, 3

DUARTE
H. R. Bierman, 3
R. Kinosita, 4
E. Roberts, 2
R. S. Schweet, 2
D. G. Simonsen, 2

GOLETA
J. E. Cushing, 6

GRIDLEY
W. S. Lawrence, 3

HILLSBOROUGH
J. H. Comroe, Jr., 1, 3

LA JOLLA
G. R. Bartlett, 2
H. I. Nakada, 2
N. W. Rakestraw, 2
A. N. Wick, 2

LOMA LINDA
C. R. Collier, 1
J. E. Thomas, 1, 3

LONG BEACH
K. Fink, 2

LOS ALTOS
P. M. Dawson, 1R

LOS ANGELES
J. M. Adams, 4
F. Aladjem, 6
R. B. Alfin-Slater, 2, 5
D. E. Atkinson, 2
W. H. Bachrach, 1
N. Baker, 2
L. A. Bavetta, 5
L. R. Bennett, 4
T. H. Bullock, 1
M. N. Camien, 2
L. A. Chambers, 1, 6
A. L. S. Cheng, 5
W. G. Clark, 1, 3
C. D. Clemente, 1
F. Crescitelli, 1
G. E. Cronheim, 3
H. A. Davis, 4
W. Drell, 2
D. R. Drury, 1
M. S. Dunn, 2
E. Eldred, 1
G. A. Emerson, 5
J. O. Erickson, 6
J. Field, II, 1
J. B. Field, 2
R. M. Fink, 2
N. B. Friedman, 4
E. Geiger, 5
R. George, 3
O. J. Golub, 6
I. Gordon, 6
P. O. Greeley, 1
J. D. Green, 1
W. H. Griffith, 2, 5
M. I. Grossman, 1
T. J. Haley, 3
V. E. Hall, 1
J. E. Hyde, 1
C. Hyman, 1
D. T. Imagawa, 4
T. L. Jahn, 1
D. J. Jenden, 3
B. M. Kagan, 5
J. Katz, 2
E. K. Killam, 3
C. R. Kleeman, 1
P. Kotin, 4
B. G. Lamson, 4
H. Latta, 4
R. L. Libby, 6
D. B. Lindsley, 1
N. S. MacDonald, 2
S. C. Madden, 4
H. W. Magoun, 1
G. L. Maison, 1, 3
J. V. Maloney, Jr., 1
N. S. R. Maluf, 1
W. Marx, 2
F. W. McKee, 4
R. W. McKee, 2
J. W. Mehl, 2
W. F. H. M. Mommaerts, 1, 2
L. F. Morehouse, 1
M. Morehouse, 2
H. L. Motley, 1
E. L. Nelson, 4
P. Ortega, 4
C. F. Pait, 6
J. W. Palmer, 6
H. E. Pearson, 6
J. G. Pierce, 2
J. J. Quilligan, Jr., 6
A. F. Rasmussen, 6
B. O. Raulston, 3R
P. E. Rekers, 4
R. F. Riley, 3
S. Roberts, 1, 2
J. F. Ross, 4
P. F. Salisbury, 1
P. Saltman, 2
C. H. Sawyer, 1
F. H. Scharles, 5
W. A. Selle, 1
A. L. Sellers, 1
D. H. Simmons, 1
R. E. Smith, 1
J. E. Snoke, 2
S. S. Sobin, 1
R. R. Sonnenschein, 1
S. Soskin, 1, 5
J. W. Stutzman, 1, 3
A. Surtshin, 1
M. E. Swendseid, 2
C. M. Szego, 1
C. L. Taylor, 1
D. B. Taylor, 3
L. E. Travis, 1
R. D. Tschirgi, 1
R. C. Ursillo, 3
M. Verzeano, 1
D. W. Visser, 2
R. L. Walford, 4
A. G. Ware, 2
R. E. Weston, 1
F. W. Weymouth, 1R
A. Wright, 4
C. L. Yuile, 4
I. Zabin, 2
L. J. Zeldis, 4

LOS GATOS
A. R. Lamb, 2R, 5

MILL VALLEY
E. Oppenheimer, 3

MODESTO
H. J. Almquist, 2, 5

MONTEBELLO
H. C. Struck, 1, 3

MONTEREY
G. H. Marmont, 1

NAPA
G. W. Clark, 2R

NORTHRIDGE
J. R. Poppen, 1

OAKLAND
J. E. Bacher, 2
I. McQuarrie, 1, 4, 5R
R. J. Parsons, 4

OLIVE VIEW
M. C. D'Amour, 1

ORANGE
G. F. Warner, 1

ORINDA
J. H. Lawrence, 1

PACIFIC GROVE
A. R. Moore, 1R

PACIFIC PALISADES
J. F. Mead, 2

PALO ALTO
P. A. Cavelti, 6
J. M. Luck, 2
F. D. Mann, 1, 4
W. Manwaring, 4, 6
O. H. Robertson, 4R
A. M. Snell, 4

PASADENA
G. A. Alles, 1, 3
J. Bonner, 2
H. Borsook, 2
D. H. Campbell, 6
J. W. Dubnoff, 2
J. S. Garvey, 6
H. Gest, 2
N. H. Horowitz, 2
G. Keighley, 1
J. B. Loefer, 1
H. K. Mitchell, 2
C. G. Niemann, 2
R. W. Porter, 1
L. B. Rockland, 2
R. L. Sinsheimer, 2
R. W. Sperry, 1
C. H. Thienes, 3
A. Tyler, 6
A. van Harreveld, 1
L. Zechmeister, 2

REDLANDS
C. Gruber, 1R, 3R

REDWOOD CITY
E. L. Durrum, 2
L. R. Melcher, 6

RIDGECREST
E. M. MacKay, 1

RIVERSIDE
R. W. Ridley, 3

SAN BRUNO
J. S. Thatcher, 1

SAN CARLOS
C. Chatfield, 5

SAN DIEGO
H. A. Ball, 4
B. F. Stimmel, 2

SAN FRANCISCO
T. K. Adler, 3
E. L. Alpen, 1
H. H. Anderson, 3
J. S. Arnold, 4
A. R. Behnke, 1
G. R. Biskind, 4
A. L. Bloomfield, 3, 4
W. L. Bostick, 4
R. W. Brauer, 1, 3
E. Brown, 1
T. N. Burbridge, 3
S. O. Byers, 1
J. L. Carr, 4
Y. C. Chin, 3
L. J. Cole, 1
A. J. Cox, Jr., 4
A. K. Davis, 1
F. De Eds, 2, 3
R. L. Driver, 1, 3
I. S. Edelman, 1
J. J. Eiler, 2
H. W. Elliott, 3
C. Entenman, 1
N. E. Freeman, 1
H. B. Friedgood, 1
M. Friedman, 1
Q. Geiman, 4
L. D. Greenberg, 2
H. A. Harper, 2
C. H. Hine, 3
E. Jawetz, 6
S. M. Kalman, 3
A. Kaplan, 1
H. S. Kaplan, 4
D. J. Kimeldorf, 1
H. I. Kohn, 1
E. Kun, 2, 3
A. E. Lewis, 1
B. Libet, 1
S. Lindsay, 4
M. E. Marsh, 1, 5
S. R. Mettier, 4
K. F. Meyer, 4, 6
F. H. Meyers, 3
H. D. Moon, 4
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K. G. Scott, 3
M. S. Silverman, 6
M. N. Swift, 1
E. L. Way, 3

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O. Feisenfeld, 6
J. A. Morris, 6
E. T. Nishimura, 4
R. A. Phillips, 1
B. H. Schneider, 5
L. A. Woodbury, 1

SAN JOSE
J. H. Sirota, 1

SAN MATEO
F. H. Quimby, 1

SANTA BARBARA
F. E. Bischoff, 2, 5
E. Gellhorn, 1
A. E. Koehler, 2
M. Sahyun, 2
I. Sandiford, 2R, 5R

SANTA MONICA
O. L. Huddleston, 1
J. A. Orcutt, 3
J. Tilt, 5R

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H. H. Beard, 2

STANFORD
J. P. Baumberger, 1
J. M. Crismon, 1
W. C. Cutting, 3
R. H. Dreisbach, 3
G. A. Feigen, 1
C. S. French, 2
F. A. Fuhrman, 1
A. Furst, 3
A. Goldstein, 3
R. Grant, 1
H. S. Loring, 2
L. O. Pilgeram, 2
S. Raffel, 6
E. W. Schultz, 4, 6R
C. E. Schwerdt, 2
P. E. Smith, 1R
R. E. Swain, 2R

TWENTY-NINE PALMS
R. R. Mellon, 6R

VAN NUYS
E. M. Gal, 2
J. F. Nyc, 2

WEST LOS ANGELES
A. Hemingway, 1

COLORADO

COLORADO SPRINGS
J. M. Beazell, 1
H. Bourquin, 1
C. R. Schmidt, 1

DENVER
A. Abrams, 2
T. H. Allen, 1
B. O. Barnes, 1
M. H. Block, 4
F. A. Cajori, 2, 5
J. R. Cann, 6
J. L. Chapin, 1
H. J. Corper, 2R
F. E. D'Amour, 1
W. B. Draper, 3
G. F. Filley, 1
M. A. Fink, 6
T. E. Friedemann, 2, 5
W. R. Frisell, 2
J. W. Gersten, 1
R. J. Glaser, 4
R. M. Hill, 2
J. H. Holmes, 1
C. H. Kempe, 6
C. J. Koehn, 5
H. F. Kraybill, 5
G. K. Lewis, 5
R. C. Lewis, 2R, 5R
C. A. Maaske, 1
C. G. Mackenzie, 1, 2, 5
J. B. Mackenzie, 2
J. B. McNaught, 4
G. Meiklejohn, 6
A. V. Montgomery, Jr., 1
R. M. Mulligan, 4
T. T. Puck, 6
D. L. Smith, 3
A. Staub, 2
R. Thompson, 6
R. W. Virtue, 2
K. N. Von Kaulla, 1
R. W. Whitehead, 1, 3

FORT COLLINS
F. X. Gassner, 1

STEAMBOAT SPRINGS
E. S. Fetcher, 1

CONNECTICUT

DANBURY
E. Woll, 4

GREENWICH
A. A. Albanese, 2
W. F. Loomis, 2

GUILFORD
C. S. Leonard, 3

HARTFORD
S. J. Martin, 1
K. H. Pribram, 1

MADISON
R. H. Green, 6

MANCHESTER
S. E. Pond, 1R

MIDDLETOWN
R. A. Gortner, Jr., 5

NEW BRITAIN
H. E. Munsell, 5
P. D. Rosahn, 4

NEW HAVEN
W. H. Adolph, 2R, 5
R. J. Anderson, 2
G. A. Baitsell, 1R
D. H. Barron, 1
W. Bergmann, 2
F. L. Black, 6
C. I. Bliss, 3
E. J. Boell, 1
D. M. Bonner, 2
E. S. Canellakis, 2
C. E. Carter, 2
H. G. Cassidy, 2
H. T. Clarke, 2
G. R. Cowgill, 1R, 2, 5
J. M. R. Delgado, 1
J. English, Jr., 2
J. S. Fruton, 2
J. F. Fulton, 1
N. J. Giarman, 3
H. S. N. Greene, 4
R. G. Harrison, 1R
L. P. Herrington, 1
D. I. Hitchcock, 2
D. Hooker, 1R
D. M. Horstmann, 6
R. B. Hubbell, 2R, 5R
D. L. Kline, 1
W. A. Krehl, 2, 5
H. Lamport, 1
A. B. Lerner, 2
C. N. H. Long, 1, 2
E. B. Man, 2
L. N. Nahum, 1
J. S. Nicholas, 1
J. R. Paul, 4, 6
W. H. Prusoff, 2
M. Reissig, 6
F. M. Richards, 2
I. A. Rose, 2
S. Simmonds, 2
M. V. Simpson, 2
S. J. Singer, 2
R. M. Taylor, 6
H. P. Treffers, 6
G. van Wagenen, 1
J. T. Velardo, 1
H. B. Vickery, 2
W. Vishniac, 2
A. D. Welch, 2, 3
G. R. Wyatt, 2
I. Zelitch, 2

NEW LONDON
W. R. Miles, 1
K. E. Schaefer, 1

NEWTOWN
C. V. Bailey, 2R, 5R

NIANTIC
F. L. Dey, 1

NORTH HAVEN
E. Sachs, 1R

RIDGEFIELD
J. H. Heller, 1
M. C. Pease, 6

ROCKVILLE
F. H. Bird, 5

ROCKY HILL
W. T. Liberson, 1

ROWAYTON
J. M. Rogoff, 1R, 3R

STAMFORD
L. Atkin, 2, 5
M. R. Thompson, 3

STORRS
E. G. Boettiger, 1
H. D. Eaton, 5
L. D. Matterson, 5

TOLLAND
W. E. Anderson, 2R, 5

WATERBURY
S. J. Liao, 6

WEST HAVEN
D. L. Buchanan, 2

DELAWARE — DISTRICT OF COLUMBIA — FLORIDA — GEORGIA — HAWAII — IDAHO — ILLINOIS

WEST HARTFORD
O. R. Benham, 6
H. F. Pierce, 1

WINDSOR
H. L. Campbell, 5R

WOODBURY
J. B. Watson, 1

DELAWARE

DOVER
O. J. Pollak, 4

NEWARK
E. P. Radford, Jr., 1
R. R. Ronkin, 1
H. R. Rosenberg, 2
T. R. Wood, 2
J. A. Zapp, Jr., 1

REHOBOTH
D. Marine, 1R, 4R

WILMINGTON
L. Brouha, 1
J. P. Frawley, 3
P. B. Hamilton, 2
M. E. Maxfield, 1
J. Waddell, 2, 5
A. T. Wilson, 6

DISTRICT OF COLUMBIA

G. Adams, 5
E. M. Anderson, 1
W. M. Ashby, 6
H. Bacchus, 1
L. A. Barnes, 6
S. Bayne-Jones, 4R, 6R
E. L. Becker, 6
A. S. Benenson, 6
D. F. Bogdanski, 3
H. A. Braun, 3
C. R. Brewer, 2
E. L. Buescher, 6
R. K. Cannan, 2
L. Carmichael, 1
H. I. Chinn, 1, 3
R. W. Clarke, 1
W. V. Consolazio, 2
C. M. Coons, 5
E. J. Coulson, 6
F. A. Csonka, 2
J. M. Curtis, 2
C. Davison, 3
D. D. Donahue, 3
J. H. Draize, 3
W. R. Duryee, 1
G. Edsall, 6
J. G. Edwards, 1
D. L. Espe, 1
J. F. Fazekas, 3
O. G. Fitzhugh, 3
R. H. Follis, Jr., 4
T. D. Fontaine, 2
S. B. Formal, 6
F. M. Forster, 1
E. D. Freis, 3
F. Friedberg, 2
M. H. Friedman, 1
H. S. Fuller, 6
A. P. Gagge, 1
S. Gaines, 6
R. Galambos, 1
A. D. Glinos, 1
L. R. Goldbaum, 3
E. W. Goodpasture, 4
R. L. Grant, 2
D. E. Gregg, 1
A. Griffin, 6
M. Harris, 2
W. M. Hart, 1
M. L. Hathaway, 5
E. W. Hawthorne, 1
H. W. Hays, 3
W. C. Hess, 2
E. M. Hewston, 5
M. Hilleman, 6
C. A. M. Hogben, 1, 3
S. R. Hoover, 2
M. J. Horn, 2
L. Hurwitz, 3
G. W. Irving, Jr., 2
J. L. Johnson, 1
H. T. Karsner, 4R
J. F. Kent, 6
B. G. King, 1
O. L. Kline, 5
T. Koppanyi, 1, 3
H. A. Kuhn, 3
E. H. Lanphier, 1
E. P. Laug, 2, 3
L. G. Lederer, 1
D. H. K. Lee, 1
C. E. Leese, 1
A. J. Lehman, 3
R. M. Leverton, 5
L. Levin, 2
E. W. Ligon, Jr., 3
R. B. Lindberg, 6
G. D. Maengwyn-Davies, 2
H. J. Magnuson, 4
H. G. Mandel, 2, 3
L. M. Marshall, 2
R. P. Mason, 6
F. D. Maurer, 6
C. F. Morgan, 1, 3
L. H. Muschel, 6
G. G. Nahas, 1
E. M. Nelson, 2, 5
L. M. Odland, 5
B. J. Olson, 6
L. W. Parr, 4
W. I. Patterson, 2
P. B. Pearson, 2, 5
J. D. Perkinson, Jr., 2
E. R. Ramey, 1
E. M. Renkin, 1
M. L. Robbins, 6
E. Roboz, 2
J. H. Roe, 2, 5
G. B. Roth, 1R, 3R
J. H. Rust, 4
A. Seidell, 2R
J. E. Smadel, 4, 6
E. R. B. Smith, 2
P. K. Smith, 2, 3
R. G. Smith, 3
S. L. Smith, 5R
C. R. Spealman, 1
H. K. Stiebeling, 5
J. W. Still, 1
M. X. Sullivan, 2R
W. D. Tigertt, 6
R. S. Tipson, 2
C. D. Tolle, 5
J. R. Totter, 2
C. R. Treadwell, 2, 5
C. Voegtlin, 1R, 2R, 3R
L. Voris, 5
B. J. Vos, 3
H. G. Wagner, 1
J. R. Weisiger, 2
H. Welch, 6
F. H. Wiley, 2
V. A. Wilkerson, 2
M. C. Winternitz, 4R
A. V. Wolf, 1
M. Womack, 5

FLORIDA

CORAL GABLES
E. L. Chambers, 1
W. B. Deichmann, 3
J. C. Finerty, 1
C. E. Lane, 1
E. Larson, 1, 3
G. T. Lewis, 2
V. H. Moon, 4
D. M. Morris, 1
W. G. Moss, 1
J. L. Radomski, 3
G. C. Ring, 1
M. M. Sigel, 6
A. K. Weiss, 1

DAYTONA BEACH
N. R. Blatherwick, 1R, 2R, 5R

FORT MYERS
J. A. E. Eyster, 1R, 3R

GAINESVILLE
C. F. Crampton, 2
T. J. Cunha, 5
G. K. Davis, 2, 5
M. J. Fregly, 1
A. L. Koch, 2
T. H. Maren, 3
S. P. Martin, 6
J. A. Olson, 2
A. B. Otis, 1
F. W. Putnam, 2
R. L. Shirley, 5
E. Suter, 6
E. R. Woodward, 1
E. B. Wright, 1

JACKSONVILLE
A. G. Foraker, 4

MIAMI
W. A. D. Anderson, 4
D. H. Cook, 2R
J. J. Griffitts, 6
D. S. Howell, 1
R. Jones, Jr., 3
J. B. Miale, 4
L. G. Rowntree, 1R, 2R, 3R
F. G. K. Savard, 2

MIAMI BEACH
N. Glickman, 1
P. B. Hawk, 1, 2
P. Samet, 1
M. L. Weil, 6

MIAMI SHORES
C. A. Cary, 2R

ORANGE PARK
K. S. Lashley, 1R

ORLANDO
R. M. Waters, 3R

PENSACOLA
A. Graybiel, 1

PLANT CITY
O. Riddle, 1R

SARASOTA
A. P. Locke, 6R
E. U. Still, 1

ST. PETERSBURG
J. W. Jobling, 4R
A. H. Lawton, 1, 3

TALLAHASSEE
L. M. Beidler, 1
K. Dittmer, 2
D. M. Easton, 1
S. W. Fox, 2
E. Frieden, 2
M. R. Sandels, 5

TAVERNIER
H. W. Haggard, 1R, 2

WEST PALM BEACH
W. H. Eddy, 2R, 5R

WINTER PARK
G. R. Crisler, 1

GEORGIA

ATHENS
M. Speirs, 5

ATLANTA
G. Bachmann, 1R
J. H. Birnie, 1
W. F. Friedewald, 4
J. T. Godwin, 4
D. S. Martin, 6

AUGUSTA
R. P. Ahlquist, 1, 3
L. Allen, 1
A. P. Briggs, 2R
P. Dow, 1
W. K. Hall, 2
W. F. Hamilton, 1
E. C. Jungck, 1
J. W. Remington, 1
S. A. Singal, 2, 5
V. P. Sydenstricker, 5
C.-S. Wright, 6

CHAMBLEE
A. B. Eschenbrenner, 4
I. G. Kagan, 6
S. S. Kalter, 6

COLUMBUS
W. J. Tomlinson, 4

EMORY UNIVERSITY
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F. Binkley, 2
J. H. U. Brown, 1
M. de V. Cotten, 3
F. W. Fales, 2
S. W. Gray, 1
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M. Hines, 1
E. Juni, 2
F. Lanni, 6
J. A. Miller, Jr., 1
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E. Papageorge, 2
C. C. Pfeiffer, 3
A. P. Richardson, 3
J. A. Russell, 1
P. A. Stewart, 1
M. Tager, 6
A. E. Wilhelmi, 2
W. Wynn, 1

GREENVILLE
G. C. Knowlton, 1

HAWAII

HONOLULU
G. O. Burr, 2, 5
W. A. Gortner, 2
C. D. Miller, 5

IDAHO

BOISE
E. Woods, 2R, 5R

MOSCOW
T. B. Keith, 5
A. C. Wiese, 5

ILLINOIS

ARLINGTON HEIGHTS
F. J. Haddy, 1

CARBONDALE
H. M. Kaplan, 1
I. L. Shechmeister, 6

CHICAGO
L. G. Abood, 1
W. R. Adams, 1
J. G. Allen, 1
S. C. Allen, 1
W. C. Alvarez, 1R, 3R
A. S. Alving, 1
R. H. Andresen, 4
H. S. Anker, 2
J. H. Annegers, 1
A. Arkin, 1R, 3
L. Arnold, 4, 6
P. Bailey, 1
H. C. Batson, 6
G. A. Bennett, 4
O. Bergeim, 1R, 2R
F. C. Bing, 2, 5
S. B. Binkley, 2
B. B. Blivaiss, 1
W. Bloom, 4
W. B. Bradley, 1
N. R. Brewer, 1
M. H. Brookes, 5
A. L. Brown, Jr., 4
P. C. Bucy, 1
M. V. Buell, 2
W. Burrows, 6
H. Busch, 2, 3
D. H. Calloway, 5
N. O. Calloway, 3
W. J. R. Camp, 3
P. R. Cannon, 4, 6
H. R. Catchpole, 1
J. J. Ceithaml, 2
C. Cohn, 1
D. L. Cook, 3
T. B. Coolidge, 2
E. Da Costa, 1, 5
C. W. Darrow, 1
W. Dasler, 5
I. Davidsohn, 4, 6
M. E. Davis, 3
O. F. Davis, 3

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R. T. Dillon, 2
A. Dorfman, 2
J. R. Doty, 2
J. Doull, 3
R. M. Dowben, 1
W. L. Doyle, 1
C. A. Dragstedt, 1, 3
L. R. Dragstedt, 1
V. A. Drill, 1, 3
K. P. Dubois, 3
E. Eagle, 1, 3
D. P. Earle, Jr., 1
L. Eichelberger, 2
E. A. Evans, Jr., 2
E. B. Farnsworth, 3
S. M. Feinberg, 6
F. W. Fitch, 4
P. P. Foa, 1
L. S. Fosdick, 2
S. Freeman, 1
J. C. Fritz, 5
N. W. Fugo, 3
H. Gaffron, 2
M. Gaudino, 1
E. M. K. Geiling, 1R, 2R, 3
I. Gersh, 4
F. A. Gibbs, 1
A. R. Goldfarb, 2
M. S. Goldstein, 1
E. Goldwasser, 2
A. S. Gordon, 1
C. E. Graham, 2, 5
E. R. Grant, 1
J. S. Gray, 1
R. Greenberg, 1
H. Greengard, 1
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W. C. Halstead, 1
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B. L. K. Hamilton, 2
C. W. Hammond, 4
D. Hamre, 6
M. E. Hanke, 2
M. T. Hanke, 2
D. L. Harris, 2
S. C. Harris, 1, 3
R. W. Harrison, 6
G. Hass, 4
E. D. Hendley, 1
O. Hepler, 4
E. L. Hess, 2
S. W. Hier, 2
W. T. Hill, 4
A. Y. Hillier, 1
M. A. Hinrichs, 1
W. S. Hoffman, 2
B. N. Horwitt, 2
C. B. Huggins, 1
J. O. Hutchens, 1
D. J. Ingle, 1
R. C. Ingraham, 1
R. Isaacs, 4
A. C. Ivy, 1, 5
E. Jacobson, 1
L. O. Jacobson, 4
F. L. Jennings, 4
R. B. Jennings, 4
R. K. Jennings, 6
E. V. Jensen, 2
N. R. Joseph, 2
F. T. Jung, 1
A. G. Karczmar, 3
L. N. Katz, 1
E. P. Kennedy, 2
A. T. Kenyon, 3
A. C. Keyl, 3
E. R. Kirch, 2
N. Kleitman, 1
H. Kluver, 1
V. L. Koenig, 2
A. J. Kosman, 1
L. M. Kozloff, 2
M. E. Krahl, 2, 3
C. A. Krakower, 4
T. H. Kritchevsky, 2
M. M. Kunde, 1R
A. Lein, 1
R. Levine, 1
S. A. Levinson, 4
J. H. Lewis, 4
M. A. Lipton, 2
H. Lisco, 4
H. E. Longenecker, 2, 5
C. G. Loosli, 4, 6
A. A. Luisada, 1
D. A. MacFadyen, 2
M. B. Mathews, 2
H. J. McDonald, 2
F. C. McLean, 1, 2R, 3R
J. B. Melchior, 2
C. P. Miller, 4, 6
G. H. Miller, 3
M. Morse, 2
J. W. Moulder, 2
H. Necheles, 1
W. D. Neff, 1
L. B. Nice, 1
J. L. Nickerson, 1
W. C. North, 3
Y. T. Oester, 3
G. T. Okita, 3
A. Omachi, 1
R. G. Page, 3
C. N. Peiss, 1
J. F. Perkins, Jr., 1
R. Pick, 1
C. L. Pirani, 4
C. D. Proctor, 3
C. B. Puestow, 1
T. N. Pullman, 1
N. S. Radin, 2
M. E. Rafelson, Jr., 2
W. C. Randall, 1
R. E. Ranney, 1
S. B. Raska, 1
G. C. Rau, 1
A. L. Raymond, 2
S. R. M. Reynolds, 1
R. Rhines, 1
H. T. Ricketts, 1
B. Riegel, 2
K. C. Robbins, 6
H. E. Robinson, 5
S. R. Rosenthal, 1, 4
L. J. Roth, 3
D. A. Rowley, 4
B. B. Rubenstein, 1
A. H. Ryan, 1
O. Saphir, 4
M. J. Schiffrin, 1
S. Schiller, 2
F. H. Schultz, Jr., 3
N. B. Schwartz, 1
B. S. Schweigert, 2, 5
H. Schwerma, 1
H. J. Shaughnessy, 6
A. L. Sheffner, 2
T. Sherrod, 3
P. Shubik, 4
J. P. Simonds, 4
A. E. Smith, 3
C. M. Smith, 3
J. A. Smith, 1
R. S. Snider, 1
B. H. Spargo, 4
H. Spector, 5
J. Stamler, 1
F. Steigmann, 3
H. B. Steinbach, 1
P. E. Steiner, 4
A. H Steinhaus, 1
R. C. Stepto, 4
K. Stern, 4, 6
G. H. Stollerman, 6
R. T. Stormont, 3
F. M. Sturtevant, 3
W. W. Swanson, 2
P. Talalay, 2
L. G. Taliaferro, 6
W. H. Taliaferro, 6
D. W. Talmage, 6
A. Tannenbaum, 4
C. B. Taylor, 1, 4
J. M. Tobias, 1
J. E. P. Toman, 1, 3
K. R. W. Unna, 1, 3, 5
C. G. Van Arman, 3
B. Vennesland, 2
G. E. Wakerlin, 1, 3
W. B. Wartman, 4
E. Weiss, 6R
J. A. Wells, 3
P. L. White, 5
W. F. White, 2
W. V. Whitehorn, 1
H. G. Williams-Ashman, 2
M. B. Williamson, 2
I. C. Winter, 3
R. J. Winzler, 2
R. W. Wissler, 6, 4
G. P. Youmans, 6
E. A. Zeller, 2
J. Zichis, 6
R. E. Zirkle, 1

CHICAGO HEIGHTS
J. E. Bourque, 1

DANVILLE
O. S. Walters, 1

DECATUR
T. B. O'Dell, 3

ELGIN
M. K. Horwitt, 2, 5

ELMHURST
J. P. Marbarger, 1

EVANSTON
G. H. Berryman, 1
F. A. Brown, Jr., 1
J. I. Farrell, 1
I. M. Klotz, 2
L. Lorand, 1, 2
H. A. McGuigan, 1R, 2R, 3R

FLOSSMOOR
W. J. Haines, 2

GALESBURG
H. E. Himwich, 1, 3
W. A. Himwich, 1

GLENVIEW
R. P. Herwick, 3
D. Nelson, 1

HIGHLAND PARK
W. C. Buchbinder, 1
J. H. Last, 3

HINES
R. Schrek, 4

JOLIET
B. Mortimer, 1

KANKAKEE
N. Ercoli, 3

LEMONT
A. M. Brues, 1
R. N. Feinstein, 2
A. K. Laird, 4
A. Lindenbaum, 2
L. S. Lombard, 4
W. P. Norris, 2
H. M. Patt, 1
F. Schlenk, 2
J. Schubert, 2
D. E. Smith, 1
R. W. Swick, 2
T. N. Tahmisian, 1

LIBERTYVILLE
J. E. Hunter, 5

MAYWOOD
S. E. Owen, 1
E. G. Weir, 1

MORTON GROVE
H. L. Fevold, 2
H. K. Iwamoto, 3

MOUNT CARROLL
F. J. Mullin, 1

NORTH CHICAGO
G. M. Everett, 3
D. V. Frost, 2, 5
K. Hwang, 3
E. T. Kimura, 3
D. W. MacCorquodale, 2
F. C. McIntire, 2
A. E. Osterberg, 2
R. K. Richards, 1, 3
L. W. Roth, 1, 3
J. R. Schenck, 2
J. D. Taylor, 3

OAK PARK
D. I. Abramson, 1
V. Guillemin, Jr., 1
H. C. Mason, 6

PALOS PARK
E. E. Rice, 5

PEORIA
R. W. Jackson, 2, 5

QUINCY
J. W. Mull, 2

RIVERSIDE
E. E. Painter-Marcus, 1

ROCKFORD
W. G. Rohse, 1
D. R. Stewart, 1

SKOKIE
J. de la Huerga, 4
M. B. Gillis, 5
F. J. Saunders, 1

URBANA
D. E. Becker, 5
H. E. Carter, 2, 5
L. E. Chadwick, 1
T. K. Cureton, Jr., 1
R. D. De Moss, 2
R. M. Forbes, 5
G. S. Fraenkel, 5
W. J. Fry, 1
I. C. Gunsalus, 2
T. S. Hamilton, 2, 5
R. G. Hansen, 2
B. C. Johnson, 2, 5
R. E. Johnson, 1, 2, 5
J. Kastelic, 5
F. A. Kummerow, 5
B. L. Larson, 2
H. H. Mitchell, 2R, 5
C. L. Prosser, 1
W. C. Rose, 2, 5
F. Sargent, II, 1
H. M. Scott, 5
J. M. Smith, 5
S. Spiegelman, 1
F. R. Steggerda, 1
C. S. Vestling, 2
G. Wolf, 2
W. A. Wood, 2

INDIANA

BLOOMINGTON
H. G. Day, 2, 5
P. M. Harmon, 1
F. Haurowitz, 2, 6
H. R. Mahler, 2
L. S. McClung, 6
P. A. Nicoll, 1
S. Robinson, 1
H. H. Rostorfer, 1
T. J. B. Stier, 1
W. J. van Wagtendonk, 2
G. E. Wertenberger, 1

BROOKSTON
F. W. Quackenbush, 2

CEDAR LAKE
C. J. Farmer, 2R

DECATUR
W. W. Cravens, 5

ELKHART
L. A. Crandall, Jr., 1
A. H. Free, 2, 5
W. H. Funderburk, 3
H. G. Glass, 3
R. K. S. Lim, 1, 3

EVANSVILLE
W. M. Cox, Jr., 2, 5
B. K. Harned, 2, 3
F. G. McDonald, 2, 5
H. P. Sarett, 2, 5
H. E. Stavely, 2
M. R. Warren, 3
J. H. Weikel, Jr., 3

FRANKLIN
R. H. K. Foster, 3

INDIANAPOLIS
B. E. Abreu, 3
R. C. Anderson, 3
M. H. Aprison, 1
O. T. Bailey, 4
P. R. Beamer, 4
O. K. Behrens, 2
D. E. Bowman, 2
C. A. Bunde, 1
K. K. Chen, 1, 3
G. H. A. Clowes, 2R, 6R

H. A. Dettwiler, 6
R. B. Forney, 3
L. W. Freeman, 1
C. M. Gruber, Jr., 3
R. N. Harger, 2, 3
P. Harris, 3, 4
O. M. Helmer, 2
F. G. Henderson, 3
R. G. Herrmann, 3
H. R. Hulpieu, 3
K. G. Kohlstaedt, 1
C. C. Lee, 1, 3
H. M. Lee, 3
T. M. Lin, 1
J. F. Lyman, 2R, 5R
H. M. Powell, 6
M. A. Root, 3
R. E. Shipley, 1
E. W. Shrigley, 6
I. H. Slater, 3
W. B. Sutton, 2
E. E. Swanson, 3
R. I. H. Wang, 3
L. C. Weaver, 3

LAFAYETTE
B. Axelrod, 2
A. K. Balls, 2
H. Beevers, 2
C. W. Carrick, 5
R. C. Corley, 2
J. F. Foster, 2
S. M. Hauge, 2, 5
W. A. Hiestand, 1
M. Laskowski, Jr., 2
E. T. Mertz, 2, 5
T. S. Miya, 3
M. Moskowitz, 6
L. J. Mullins, 1
C. Schuck, 5
R. L. Whistler, 2
M. X. Zarrow, 1

MARION
S. Ansbacher, 2

MICHIGAN CITY
W. H. Olson, 1

SHELBYVILLE
V. B. Scott, 1

TERRE HAUTE
C. F. Failey, 2
W. C. Sherman, 5

WEST LAFAYETTE
W. M. Beeson, 5

IOWA

AMES
L. Arnrich, 5
S. Aronoff, 2
E. R. Becker, 6
W. D. Brewer, 5
W. Burroughs, 5
D. Catron, 5
E. S. Eppright, 5
D. French, 2
E. A. Hewitt, 1
L. M. Jones, 3
R. M. Melampy, 1
D. E. Metzler, 2
C. E. Roderuck, 5
F. G. Smith, 2
P. P. Swanson, 5
B. H. Thomas, 5
C. H. Werkman, 2

DES MOINES
R. H. Beutner, 1R, 3
H. W. Larson, 2

IOWA CITY
C. P. Berg, 2, 5
J. T. Bradbury, 1
G. W. Brown, 1
H. Bull, 2
J. R. Carter, 4
S. C. Cullen, 3
A. L. Daniels, 2R, 5R
T. C. Evans, 1
R. M. Featherstone, 3
R. B. Gibson, 2R
E. G. Gross, 1, 2, 3
H. M. Hines, 1
S. M. Horvath, 1
J. P. Hummel, 2
C. J. Imig, 1
W. R. Ingram, 1
R. G. Janes, 1
W. S. Jeter, 6
R. E. Kallio, 2
G. Kalnitsky, 2
H. H. Keasling, 3
J. P. Long, 3
G. Marsh, 1
A. P. McKee, 6
R. Montgomery, 2
M. A. Ohlson, 5
I. H. Pierce, 3R
C. B. Pittinger, 3
J. R. Porter, 6
J. I. Routh, 2
F. W. Stamler, 4
G. Stearns, 2, 5
J. D. Thomson, 1
W. W. Tuttle, 1
E. D. Warner, 4
T. Winnick, 2
C. C. Wunder, 1

KANSAS

KANSAS CITY
G. L. Curran, 2
D. C. Darrow, 2
J. K. Frenkel, 4
R. E. Green, 3
S. Grisolia, 2
T. R. Hamilton, 4
R. M. Isenberger, 3
L. Peters, 3
K. R. Reissmann, 1
R. E. Stowell, 4
A. A. Werder, 4
W. C. Wescoe, 3

LAWRENCE
H. W. Barrett, 2
C. M. Downs, 6
K. Jochim, 1
C. A. Leone, 6
G. N. Loofbourrow, 1
R. C. Mills, 2
D. J. Mulford, 2
F. E. Samson, Jr., 1
N. P. Sherwood, 6
O. O. Stoland, 1R

MANHATTAN
L. Ascham, 5R
R. E. Clegg, 2
J. S. Hughes, 2, 5R
M. Kramer, 5
D. B. Parrish, 5
M. S. Pittman, 5R

OSAWATOMIE
B. Minz, 3

SALINA
C. J. Weber, 2

TOPEKA
C. C. Wang, 2, 5

WICHITA
N. F. Blau, 2

WINFIELD
F. R. Miller, 4

KENTUCKY

FORT KNOX
J. R. Blair, 1
H. F. Jensen, 2
A. D. Keller, 1
W. F. Kocholaty, 2
G. W. Molnar, 1
U. F. Westphal, 2

LEXINGTON
W. L. Adams, 3
J. W. Archdeacon, 1
L. L. Boyarsky, 1
G. D. Buckner, 2R
A. J. Eisenman, 2
C. F. Essig, 1
H. F. Fraser, 3
J. C. Humphries, 6
H. Isbell, 3
J. S. McHargue, 2R
M. Scherago, 6
A. Wikler, 3

LOUISVILLE
W. A. Brodsky, 1
W. F. Cantrell, 3
J. P. Holt, 1
K.-C. Huang, 1, 3
P. K. Knoefel, 3
H. Lawson, 1
M. M. Lipton, 6
K. P. McConnell, 2
J. C. Moore, 1
W. S. Rehm, Jr., 1
O. W. Shadle, 1
A. J. Steigman, 6
J. F. Taylor, 2
S. M. Walker, 1

PADUCAH
H. H. Fisher, 2

LOUISIANA

BATON ROUGE
S. L. Hansard, 5
L. L. Rusoff, 5
V. R. Williams, 2

MANDEVILLE
D. J. Cavanaugh, 3

NEW ORLEANS
A. M. Altschul, 2
R. Ashman, 1R
L. M. N. Bach, 1
H. Baer, 6
F. G. Brazda, 2
G. J. Buddingh, 4
E. Bueding, 2, 3
G. M. Carrera, 4
L. Churney, 1
R. A. Coulson, 2
C. E. Dunlap, 4
E. Farber, 2, 4
J. P. Fox, 6
G. A. Goldsmith, 5
M. H. Hack, 2
J. K. Hampton, Jr., 1
A. S. Harris, 1
W. H. Harris, 4
T. Hernandez, 1
R. L. Holman, 4
A. Kandel, 3
H. E. King, 1
T. E. Mansour, 3
H. S. Mayerson, 1
H. C. McGill, Jr., 4
O. N. Miller, 2, 5
R. E. Reeves, 2
H. J. Saz, 2
O. Schales, 2
F. W. Schueler, 3
A. Segaloff, 4
M. F. Shaffer, 4, 6
E. Shaw, 2
T. C. Sherwood, 1
F. R. Skelton, 4
L. A. Toth, 1
J. H. Trapold, 3
W. G. Unglaub, 5
K. Wasserman, 1
W. B. Wendel, 2
A. G. C. White, 2
C. R. Womack, 4

MAINE

BAR HARBOR
J. L. Fuller, 1
C. Ten Broeck, 4R

MARYLAND

ARMY CHEMICAL CENTER
A. M. Ambrose, 3
R. S. Anderson, 1
R. V. Brown, 1, 3
W. H. Chambers, 1, 5
F. N. Craig, 1
D. B. Dill, 1, 2
A. J. Dziemian, 1
C. C. Hassett, 1
R. G. Horton, 1
B. J. Jandorf, 2
K. K. Kimura, 3
B. P. McNamara, 3
H. O. Michel, 2
F. W. Oberst, 2, 3
J. F. O'Leary, 3
B. Sacktor, 2
N. K. Schaffer, 2
L. A. Sternberger, 6
W. H. Summerson, 2
C. tum Suden, 1
C. G. Wilber, 1
J. H. Wills, 1, 3

BALTIMORE
W. R. Amberson, 1
M. A. Andersch, 2
R. Andres, 1
E. C. Andrus, 1
A. M. Baetjer, 1
F. B. Bang, 4, 6
P. Bard, 1
F. W. Barnes, Jr., 2
R. F. Beers, Jr., 2
I. L. Bennett, Jr., 6
S. P. Bessman, 2
C. E. Bills, 2, 5
K. C. Blanchard, 3
D. Bodian, 6
E. Braunwald, 1
J. H. Brewer, 6
A. M. Chesney, 4
F. P. Chinard, 2
B. F. Chow, 2, 5, 6
J. H. Clark, 1R
W. M. Clark, 2R
L. E. Cluff, 6
S. P. Colowick, 2
P. W. Davies, 1
V. G. Dethier, 1
C. Edwards, 1
F. P. Ferguson, 1
H. I. Firminger, 4
W. M. Firor, 1
W. H. Gantt, 1, 3
L. N. Gay, 6
F. G. Germuth, 4, 6
G. O. Gey, 1
H. H. Gordon, 5
A. A. Green, 2
R. G. Grenell, 1
D. Grob, 1, 3
O. G. Harne, 1R
H. C. Harrison, 1
A. McG. Harvey, 1, 3
L. Hellerman, 2
C. M. Herget, 1
R. M. Herriott, 2
A. W. Hetherington, 1
E. Howard, 1
J. E. Howard, 1
H. A. Howe, 6
P. E. Howe, 1R, 2R, 5R
D. P. Jackson, 1
S. Katsh, 1
J. C. Krantz, Jr., 3
S. W. Kuffler, 1
M. Landowne, 1
R. G. Langdon, 2
M. G. Larrabee, 1
L. Lasagna, 3
A. L. Lehninger, 2, 5
W. E. Love, 1
D. I. Macht, 1R, 3
J. W. Magladery, 1
E. K. Marshall, Jr., 1R, 2R, 3
J. McE. Marshall, 1
M. M. Mayer, 6
E. W. Maynert, 3
E. B. McCollum, 5
E. V. McCollum, 2R, 5
W. D. McElroy, 1, 2
C. M. McKee, 6
G. S. Mirick, 6
V. B. Mountcastle, 1
G. H. Mudge, 1, 3
A. Nason, 2
A. G. Osler, 6
R. H. Oster, 1
Z. Ovary, 6
A. H. Owens, Jr., 3
E. A. Park, 4
A. D. Pollack, 4
D. F. Proctor, 1
J. F. Reback, 6
A. R. Rich, 4

MARYLAND — MASSACHUSETTS

C. P. Richter, 1
R. L. Riley, 1
J. E. Rose, 1
M. Rosenfeld, 3
R. S. Ross, 1
G. G. Rudolph, 1
A. San Pietro, 2
E. G. Schmidt, 2
W. W. Scott, 1
R. H. Shepard, 1
N. W. Shock, 1
D. C. Smith, 1
C. D. Snyder, 1R
B. L. Strehler, 2
G. F. Sutherland, 1
S. A. Talbot, 1
R. D. Teasdall, 1
S. S. Tower, 1
E. B. Truitt, Jr., 3
H. J. Trurnit, 1
R. R. Wagner, 6
A. E. Walker, 1
M. Walser, 1
P. Whittlesey, 3
C. L. Wisseman, Jr., 6
A. C. Wood, 6
K. L. Zierler, 1
L. P. Zill, 2

BEL AIR
J. A. LeBlanc, 1

BELTSVILLE
M. Adams, 2
C. A. Denton, 5
L. P. Dryden, 5
N. R. Ellis, 2, 5
R. M. Fraps, 1
A. M. Hartman, 5
E. F. Johnston, 1
R. J. Lillie, 5
L. A. Moore, 5
H. Oldham, 5
M. H. Roepke, 3
J. F. Sykes, 1

BETHESDA
R. P. Akers, 1
E. C. Albritton, 1R
G. H. Algire, 4
P. D. Altland, 1
B. N. Ames, 2
E. P. Anderson, 2
H. B. Andervont, 4
C. B. Anfinsen, Jr., 2
G. G. Ashwell, 2
J. Axelrod, 3
H. Baernstein, 2
C. G. Baker, 2
R. G. Bartlett, Jr., 1
R. W. Bates, 2
J. H. Baxter, 3
M. Belkin, 3
N. I. Berlin, 1
R. W. Berliner, 1
J. G. Bieri, 5
S. M. Birnbaum, 2
J. E. Birren, 1
S. Black, 2
B. Bloom, 2
B. R. Boone, 1
D. J. Botts, 1
W. J. Bowen, 1
J. Bozicevich, 6
R. O. Brady, 2
J. H. Bragdon, 4
S. E. Branham, 6
G. Brecher, 4
G. M. Briggs, 5
B. B. Brodie, 2, 3
W. R. Bryan, 1, 4, 6
D. Bark, 2
J. J. Burns, 2, 3
M. S. Burstone, 4
G. L. Cantoni, 2, 3
C. J. Carr, 3
H. W. Chalkley, 1R
S. S. Chernick, 2
J. J. Christian, 4
J. Cochin, 3
R. D. Coghill, 2
K. S. Cole, 1
F. S. Daft, 2, 5
R. G. Daggs, 1, 5
A. J. Dalton, 4
D. J. Davis, 6
J. O. Davis, 1
T. B. Dunn, 4
H. M. Dyer, 2, 5
H. Eagle, 2, 3R, 6
W. R. Earle, 4
B. E. Eddy, 6
N. B. Eddy, 3
F. Eisenberg, Jr., 2
F. P. Ellinger, 3
E. W. Emmart, 3
K. M. Endicott, 4
V. J. Evans, 4
J. L. Fahey, 1
K. Frank, 1
J. Freund, 6
W. H. Freygang, Jr., 1
M. G. F. Fuortes, 1
A. Goldin, 1, 3
D. E. Goldman, 1
H. C. Goodman, 1
F. B. Gordon, 4
J. P. Greenstein, 2
K. Habel, 6
R. T. Habermann, 4
C. E. Hamilton, 1
S. W. Handford, 1
E. Hardenbergh, 1
E. C. Hartman, 5
F. W. Hartman, 4
V. B. Hartman, 1
O. Hayaishi, 2
J. Z. Hearon, 1
R. W. Hendler, 2
L. A. Heppel, 2
R. Hertz, 1
W. E. Heston, 4
B. Highman, 4
B. L. Horecker, 2
E. L. Hove, 5
W. C. Hueper, 4
C. P. Huttrer, 1
H. A. Itano, 2
E. B. Jackson, 6
W. B. Jakoby, 2
H. M. Kalckar, 2
L. Karel, 3
S. Kaufman, 2
E. O. Keiles, 2, 5
T. J. Kennedy, Jr., 1
J. C. Keresztesy, 2, 5
S. S. Kety, 1, 3
R. K. Kielley, 2
W. W. Kielley, 2
M. W. Kies, 2
L. Kilham, 6
R. E. Knutti, 4
E. D. Korn, 2
C. Kornetsky, 3
B. N. LaDu, Jr., 2
M. Landy, 6
G. L. Laqueur, 4
L. W. Law, 4
I. G. Leder, 2
M. O. Lee, 1, 5
E. M. Lerner, II, 4
L. Levintow, 2
H. L. Ley, 6
C.-L. Li, 1
C. P. Li, 6
R. D. Lillie, 4
J. C. Lilly, 1
R. B. Livingston, 1
R. C. MacCardle, 4
D. L. MacDonald, 2
H. Maling, 3
R. A. Malmgren, 4
L. H. Marshall, 1
M. E. Maver, 2
R. K. McDonald, 1
A. H. Mehler, 2
J. L. Melnick, 6
O. Mickelsen, 2, 5
G. B. Mider, 4
E. Mihalyi, 2
R. C. Millican, 3
D. Minard, 1
C. Mitoma, 2
M. F. Morales, 1
H. P. Morris, 2, 5
E. M. Nadel, 4
R. A. Olson, 1
J. Orloff, 1
E. A. Peterson, 2
M. Pittman, 6
H. C. Pribor, 4
V. E. Price, 2
D. P. Rall, 3
J. E. Rall, 1
W. Rall, 1
J. C. Reid, 2
M. E. Reid, 5
S. M. Rosenthal, 3
K. K. Sanford, 4
S. J. Sarnoff, 1
J. P. Saunders, 3
R. E. Scantlebury, 1
A. E. Schaefer, 5
W. C. Schneider, 2
R. O. Scow, 1
J. Sendroy, Jr., 1, 2
J. W. Severinghaus, 1
J. Shack, 2
A. M. Shanes, 1
J. A. Shannon, 1, 3
M. J. Shear, 2, 3
E. Shelton, 4
M. B. Shimkin, 4
P. A. Shore, 3
M. Silverman, 2
A. Sjoerdsma, 3
F. Smith, 1
W. W. Smith, 1
H. A. Sober, 2
Leon Sokoloff, 4
Louis Sokoloff, 1
H. Specht, 1
S. S. Spicer, 1
E. R. Stadtman, 2
T. C. Stadtman, 2
S. N. Stein, 1
D. Steinberg, 2
H. G. Steinman, 2
DeW. Stetten, Jr., 2
M. R. Stetten, 2
H. L. Stewart, 4
E. F. Stohlman, 3
F. Stohlman, 4
S. H. Stone, 6
H. Tabor, 2, 3
I. Tasaki, 1
R. E. Taylor, 1
E. O. Titus, 2
G. M. Tomkins, 2
Y. J. Topper, 2
S. Udenfriend, 2, 3
R. Van Reen, 5
W. F. Von Oettingen, 3
J. Warren, 6
D. M. Watkin, 1
E. C. Weinbach, 2
J. White, 2
G. Z. Williams, 4
R. B. Williams, Jr., 4
H. N. Wilson, 2
W. F. Windle, 1
M. Winitz, 2
S. H. Wollman, 1
M. W. Woods, 2
W. G. Workman, 6
C. I. Wright, 1, 3
C. G. Zubrod, 3

CAMBRIDGE
C. T. Morgan, 1

CHEVY CHASE
C. Ajmone-Marsan, 1
D. E. Copeland, 1
D. M. Rioch, 1
O. Schreiner, 2R
J. Steinhardt, 2

CLARKSBURG
O. E. Reynolds, 1

COLLEGE PARK
G. F. Combs, 5
H. W. Schoenborn, 1
J. C. Shaw, 1

FORT DETRICK
J. B. Bateman, 1
T. O. Berge, 6
L. D. Fothergill, 6
C. B. Thorne, 2
G. G. Wright, 6
R. H. Yager, 6

FREDERICK
J. D. McCarrell, 1
M. W. Slein, 2

KENSINGTON
H. D. Bruner, 1, 3
P. Condliffe, 2
H. Edelhoch, 2
W. H. Marshall, 1
E. M. Scott, 2
F. R. White, 2

ROCKVILLE
T. H. Benzinger, 1

SILVER SPRING
H. G. Barott, 5R
E. L. Batchelder, 5
W. S. Gochenour, Jr., 6
A. A. Nelson, 4
M. F. Stanton, 4

TAKOMA PARK
H. Y. C. Wong, 1

TOWSON
P. J. Crittenden, 1, 3

MASSACHUSETTS

AMHERST
V. C. Dewey, 2
J. O. Holmes, 2, 5
G. W. Kidder, 2
H. S. Mitchell, 5
J. G. Snedecor, 1
A. W. Wertz, 5

ARLINGTON
J. C. R. Licklider, 1

BOSTON
B. Alexander, 2
F. N. Allan, 4
S. B. Andrus, 4
J. Ashmore, 2
J. Aub, 1R, 5
E. E. Baker, 6
E. G. Ball, 2
A. C. Barger, 1
W. Bauer, 1
W. S. Beck, 2
H. K. Beecher, 1, 3
K. Benirschke, 4
P. Bernfeld, 2
G. P. Berry, 6
M. R. Blair, Jr., 3
W. C. Boyd, 6
M. A. B. Brazier, 1
F. N. Briggs, 3
A. F. Brodie, 2
E. A. Brown, 6
N. L. R. Bucher, 1
J. P. Bunker, 3
B. S. Burke, 5
A. Canzanelli, 1
W. B. Castle, 4
B. Castleman, 4
B. B. Clark, 3
J. Cohen, 4
A. H. Coons, 6
B. G. Covino, 1
J. M. Craig, 4
C. S. Davidson, 5
B. D. Davis, 2, 3
P. B. Dews, 3
L. Dexter, 1
L. Dienes, 6
M. D. Eaton, 6
J. F. Enders, 6
L. L. Engel, 2
B. E. Etsten, 3
S. Farber, 4
J. M. Felts, 1
M. Finland, 6
W. H. Fishman, 2
C. Floyd, 6
G. E. Foley, 4
E. M. Follensby, 6
W. H. Forbes, 1
A. S. Freedberg, 1
D. G. Freiman, 4
E. H. Frieden, 2
D. G. Friend, 3
S.-C. J. Fu, 2
G. P. Fulton, 1
J. Furth, 4
O. Gates, 4
J. Gergely, 2
R. P. Geyer, 5
L. I. Goldberg, 3
R. O. Greep, 1
J. Gross, 1
R. E. Gross, 4
Z. Hadidian, 1

P. B. Hagen, 3
A. H. Handler, 4
J. H. Hanks, 6
A. B. Hastings, 1, 2, 5
J. M. Hayman, Jr., 1, 3
F. W. Haynes, 1
A. H. Hegnauer, 1
D. M. Hegsted, 5
E. Heinz, 2
E. Henneman, 1
A. Hertig, 4
H. H. Hiatt, 2
S. P. Hicks, 4
M. B. Hoagland, 2
F. L. Hoch, 2
F. Homburger, 4
R. W. Jeanloz, 2
E. P. Joslin, 5R
M. H. Kaplan, 6
M. L. Karnovsky, 2
E. H. Kass, 6
E. B. Keller, 2
C. J. Kensler, 3
H. B. Kenton, 6
W. B. Kinter, 1
E. Knobil, 1
W. E. Knox, 2
O. Krayer, 3
J. P. Kulka, 4
E. M. Landis, 1
S. Leskowitz, 6
R. R. Levine, 3
T. H. Li, 3
C. Liu, 6
E. R. Loew, 1, 3
R. B. Loftfield, 2
J. M. Looney, 2
F. C. Lowell, 6
M. Lubin, 3
B. R. Lutz, 1R
S. Maddock, 4
B. Magasanik, 2
G. Majno, 4
S. Malkiel, 6
G. K. Mallory, 4
E. J. Masoro, 1
J. Mayer, 1, 5
R. A. McFarland, 1
D. G. McKay, 4
J. Mead, 1
W. A. Meissner, 4
A. Meister, 2
J. P. Merrill, 1
K. Moldave, 2
P. L. Munson, 2, 3
M. M. Nothman, 3
J. P. O'Hare, 4R
J. L. Oncley, 2
J. C. Opsahl, 2
J. R. Pappenheimer, 1
E. W. Pelikan, 3
M. L. Qualife, 2, 5
F. M. Rackemann, 6
D. Rapport, 1
A. S. Relman, 1
A. E. Renold, 1
S. L. Robbins, 4
F. L. Rodkey, 2
H. F. Root, 5
A. B. Russfield, 4
K. Schmid, 2
G. Schmidt, 2
W. B. Schwartz, 1
J. H. Shaw, 5
F. M. Sinex, 2
F. F. Snyder, 1
J. C. Snyder, 6
A. K. Solomon, 1
S. C. Sommers, 4
F. J. Stare, 2, 5
C. F. Strittmatter, 2
D. MacN. Surgenor, 2
E. B. Taft, 4
S. J. Thannhauser, 2
G. W. Thorn, 1
E. H. Tompkins, 4
H. C. Trimble, 2, 5
M. F. Trulson, 5
J. L. Tullis, 4
H. E. Umbarger, 2
B. L. Vallee, 2
C. A. Villee, Jr., 2
C. W. Walter, 4
B. Warren, 4
B. K. Watson, 6
T. H. Weller, 6
C. W. White, Jr., 3
P. D. White, 3
J. L. Whittenberger, 1
T. H. Wilson, 2
H. H. Wotiz, 2
L. C. Wyman, 1
F. E. Yates, 1
A. G. Young, 3
N. Zamcheck, 4
P. Zamecnik, 2

BRIGHTON
M. Stefanini, 1, 4, 6

BROOKLINE
E. B. Astwood, 1
J. B. Daniels, 6
J. L. Gamble, 2R, 5R
H. Wu, 2

CAMBRIDGE
K. Bloch, 2
J. M. Buchanan, 2
E. S. Castle, 1
P. M. Doty, 2
J. T. Edsall, 2
M. M. Eliot, 5
A. Forbes, 1
B. S. Gould, 2
D. R. Griffin, 1
A. Gulick, 1R, 5R
R. S. Harris, 5
F. L. Hisaw, 1
R. H. Hubbard, 2
J. Y. Lettvin, 1
C. P. Lyman, 1
J. W. Mavor, 1R
W. S. McCulloch, 1
G. A. Miller, 1
F. O. Schmitt, 1
I. W. Sizer, 1, 2
S. S. Stevens, 1
G. Wald, 2
P. D. Wall, 1
D. F. Waugh, 1, 2
J. H. Welsh, 1
L. G. Wesson, 2R, 3
F. H. Westheimer, 2
C. M. Williams, 1

CHESTNUT HILL
L. Rane, 6

COCHITUATE
M. G. Gray, 3

CONCORD
R. M. Ferry, 2

FITCHBURG
B. S. Walker, 2

HADLEY
E. V. Smith, 6

HINGHAM
D. L. Belding, 4

JAMAICA PLAIN
J. Ipsen, Jr., 6

LEXINGTON
C. H. Fiske, 2R
B. H. Waksman, 6

LYNN
S. E. Steiman, 1

MEDFORD
K. D. Roeder, 1
R. Rustigian, 6

MILTON
H. S. Forbes, 1R
G. P. Grabfield, 3R

MONSON
W. Hale, 1R, 3R

NATICK
D. E. Bass, 1
O. A. Bessey, 2, 5
A. F. Henschel, 1
G. L. Miller, 2
A. H. Woodcock, 1

NEEDHAM
M. F. Crawford, 1

NEWTON
H. L. Higgins, 1, 5R

NEWTON HIGHLANDS
F. W. Maurer, 1

NEWTON UPPER FALLS
I. A. Macchi, 1

NORTHAMPTON
M. Sampson, 5

SHREWSBURY
J. R. Bergen, 1
M. C. Chang, 1
R. I. Dorfman, 2
M. Hayano, 2
O. M. Hechter, 1
H. Hoagland, 1
W. P. Koella, 1
G. Pincus, 1
E. B. Romanoff, 1
H. Rosenkrantz, 2
D. Stone, 2
C. Terner, 2

SOUTHBRIDGE
O. W. Richards, 1

SOUTH HADLEY
C. Haywood, 1
J. Muus, 2
A. H. Turner, 1R

SOUTH WEYMOUTH
C. W. Duval, 4R

SPRINGFIELD
P. V. Karpovich, 1

WABAN
R. G. Hoskins, 1R
M. S. Raben, 1

WALPOLE
L. C. Fogg, 4

WALTHAM
M. E. Jones, 2
M. D. Kamen, 2
N. O. Kaplan, 2
L. Levine, 6
M. Soodak, 2

WAVERLEY
J. Folch, 2
A. Pope, 2

WELLESLEY
M. E. Collett, 1R
E. E. Jones, 4
L. P. Wilson, 1

WELLESLEY HILLS
G. V. Mann, 5
F. H. Pratt, 1R

WEST NEWTON
F. H. McCrudden, 2R
G. F. Vawter, 4

WESTON
B. G. Ferris, Jr., 1

WESTWOOD
T. M. Carpenter, 1R, 2R, 5R

WILLIAMSTOWN
S. A. Matthews, 1

WINCHESTER
L. Varga, 2

WOODS HOLE
R. Benesch, 2
R. E. Benesch, 2
A. G. Marshak, 1
A. C. Redfield, 1R
P. Rieser, 1
Albert Szent-Györgyi, 2
Andrew Szent-Györgyi, 1

WORCESTER
F. Elmadjian, 1
A. P. Truant, 3

MICHIGAN

ANN ARBOR
W. W. Ackermann, 2, 6
B. L. Baker, 1
J. W. Bean, 1
I. A. Bernstein, 2
F. H. Bethell, 4
W. D. Block, 2
J. J. Blum, 1
D. F. Bohr, 1
C. R. Brassfield, 1
T. M. Brody, 3
D. E. S. Brown, 1
G. C. Brown, 6
E. A. Carr, Jr., 3
J. P. Chandler, 2, 5
H. N. Christensen, 2
A. A. Christman, 2
K. W. Cochran, 3, 6
M. J. Coon, 2
F. M. Davenport, 6
H. W. Davenport, 1
V. D. Davenport, 1
E. F. Domino, 3
R. W. Doty, 1
H. C. Eckstein, 2
R. C. Elderfield, 2
L. H. Elwell, 1
T. Francis, Jr., 4, 6
I. B. Fritz, 1
R. W. Gerard, 1
G. R. Greenberg, 2
R. C. Hendrix, 4
A. V. Hennessy, 6
I. M. Hoobler, 2, 5
S. W. Hoobler, 1
V. Job, 2
A. G. Johnson, 6
M. W. Johnston, 2
R. L. Kahn, 4, 6
M. Lawrence, 1
L. H. Louis, 2
L. Miller, 2
W. J. Nungester, 6
T. R. Riggs, 2
S. Roseman, 2
G. W. H. Schepers, 4
M. H. Seevers, 1, 3
B. F. Steele, 5
C. C. Sturgis, 4
A. H. Wheeler, 6
W. S. Wilde, 1
L. A. Woods, 3
P. A. Wright, 1

CARO
V. V. Cole, 3

CLARKSTON
H. G. Kobrak, 1

DEARBORN
C. L. Schneider, 1

DETROIT
P. D. Bartlett, 2
D. H. Basinski, 2
W. T. Beher, 2
O. Bird, 2
A. C. Bratton, Jr., 3
R. A. Brown, 5
G. Chen, 3
A. J. Derbyshire, 1
P. R. Dumke, 3
F. G. Evans, 1
C. E. Frohman, 2
O. H. Gaebler, 2
E. D. Gardner, 1
E. B. Gerheim, 1, 6
A. J. Glazko, 1
A. Golden, 4
M. Goodman, 6
A. L. Grafflin, 1
R. M. Johnson, 2
S. A. Johnson, 1
C. G. Johnston, 1
E. B. Kearney, 2
V. E. Kinsey, 2
P. A. Kober, 2R
A. C. Kuyper, 2
B. M. Lewis, 1
G. A. Lo Grippo, 4, 6
W. O. Maddock, 1
D. A. McGinty, 1
I. W. McLean, Jr., 6
F. A. Morin, 1

MICHIGAN — MINNESOTA — MISSOURI — MONTANA — NEBRASKA — NEW HAMPSHIRE

J. Nyboer, 1
A. U. Orten, 5
J. M. Orten, 2, 5
B. Pearson, 4
J. J. Pfiffner, 1, 2, 5
J. W. Rebuck, 4
D. J. Sandweiss, 1
W. H. Seegers, 1, 2
T. P. Singer, 2
A. H. Smith, 2, 5
P. G. Stansly, 2
A. R. Taylor, 6
A. J. Vorwald, 4
J. K. Weston, 4
C. V. Winder, 1, 3

EAST LANSING
B. V. Alfredson, 1
R. S. Bandurski, 2
S. H. Bartley, 1
R. U. Byerrum, 2
D. C. Cederquist, 5
W. D. Collings, 1
M. Dye, 2R, 5R
R. J. Evans, 5
J. L. Fairley, Jr., 2
L. C. Ferguson, 6
R. M. Herbst, 2
C. A. Hoppert, 5
C. F. Huffman, 5
R. W. Luecke, 5
W. N. Mack, 6
J. Meites, 1, 5
T. Porter, 5
E. P. Reineke, 1
H. M. Sell, 2
C. K. Whitehair, 5
L. F. Wolterink, 1

GRAND RAPIDS
C. J. Herrick, 1R
J. D. Mann, 4

GROSSE POINTE
O. M. Gruhzit, 4

GROSSE POINTE FARMS
O. Kamm, 2R

KALAMAZOO
W. B. Bass, 3
G. C. Bond, 6
G. F. Cartland, 2
W. A. Freyburger, Jr., 3
M. E. Greig, 3
R. W. Heinle, 5
M. H. Kuizenga, 2
C. E. Meyer, 2
P. H. Seay, 3
M. J. Vander Brook, 3
F. E. Visscher, 1

LANSING
A. K. Boor, 2
R. Y. Gottshall, 6
C. W. Muehlberger, 3

MIDLAND
M. B. Chenoweth, 3
L. C. Hendershot, 3
D. D. Irish, 3
G. N. Smith, 2

MINNESOTA

AUSTIN
R. T. Holman, 2, 5
W. O. Lundberg, 2

MINNEAPOLIS
J. T. Anderson, 5
W. D. Armstrong, 1, 2
A. B. Baker, 4
C. P. Barnum, Jr., 2
E. T. Bell, 4
W. M. Benson, 3
R. N. Bieter, 3
P. D. Boyer, 2
E. B. Brown, Jr., 1
J. Brozek, 1, 5
J. G. Brunson, 4
B. Campbell, 1
C. W. Carr, 2
W. O. Caster, 2
H. M. Cavert, 1
E. M. Cranston, 3
J. R. Dawson, Jr., 4
R. H. Egdahl, 4
G. T. Evans, 1
G. Fahr, 1R, 3R
I. D. Frantz, 2
A. W. Frenkel, 2
D. Glick, 2
R. A. Good, 4, 6
F. Grande, 1
H. R. Gutmann, 2
F. Halberg, 1
B. Hoelscher, 1
F. W. Hoffbauer, 4
J. A. Johnson, 1
C. Kennedy, 2R, 5R
A. Keys, 1, 2
J. T. King, 1
C. B. Knodt, 5
F. J. Kottke, 1
W. G. Kubicek, 1
H. C. Lichstein, 2
N. Lifson, 1
V. Lorber, 1
R. Lumry, 2
C. Martinez, 1
G. A. Matson, 6
E. C. Rosenow, 4R, 6R
W. F. Scherer, 6
O. H. Schmitt, 1
S. Schwartz, 2
E. Simonson, 1
L. Singer, 2
L. I. Smith, 2
W. W. Spink, 6
A. V. Stoesser, 6
J. T. Syverton, 4, 6
H. L. Taylor, 1
A. P. Thal, 4
L. Tobian, Jr., 1
R. L. Vernier, 4
M. B. Visscher, 1
R. W. Von Korff, 2
O. H. Wangensteen, 1, 4
C. J. Watson, 2
D. W. Watson, 6
L. W. Wattenberg, 4
H. S. Wells, 1
W. L. Williams, 1, 4
F. W. Wittich, 6
H. N. Wright, 3

PAYNESVILLE
E. D. Brown, 1R, 3R

ROCHESTER
A. Albert, 1
S. Amberg, 1R, 2R, 3R
R. C. Bahn, 1
E. J. Baldes, 1
R. G. Bickford, 1
J. L. Bollman, 4
H. B. Burchell, 1
H. R. Butt, 5
C. F. Code, 1, 3
J. E. Edwards, 4
H. E. Essex, 1, 3
A. Faulconer, Jr., 3
W. H. Feldman, 4
G. A. Fleisher, 2
E. V. Flock, 2
W. S. Fowler, 1
J. H. Grindlay, 1
G. A. Hallenbeck, 1
J. F. Herrick, 1
W. H. Hollinshead, 1
V. Johnson, 1
N. M. Keith, 1, 3R, 4
E. H. Lambert, 1
J. S. Lundy, 3
T. B. Magath, 1
F. C. Mann, 1R, 4R
H. L. Mason, 2
D. R. Mathieson, 6
V. R. Mattox, 2
K. N. Ogle, 1
C. A. Owen, Jr., 1, 4
M. H. Power, 2
G. M. Roth, 1
... H. Sanford, 6R
C. Sheard, 1
H. J. C. Swan, 1
K. G. Wakim, 1, 3
R. M. Wilder, 1R, 4R, 5R
E. H. Wood, 1, 3

ST. PAUL
D. R. Briggs, 2
J. R. Geary, Jr., 4
W. F. Geddes, 2
R. Jenness, 2
S. Kirkwood, 2
J. M. Leichsenring, 5
I. E. Liener, 2, 5
W. E. Petersen, 1
M. O. Schultze, 2, 5
W. T. S. Thorp, 4

MISSISSIPPI

GREENWOOD
J. O. Crider, 1R

JACKSON
A. C. Guyton, 1
J. D. Hardy, 1
J. G. Hilton, 3
T. D. Norman, 4
C. C. Randall, 4
J. C. Rice, 3

MISSOURI

COLUMBIA
B. Bisbey, 5R
H. E. Dale, 1
J. E. Flynn, 4
C. C. Guthrie, 1R, 3R
A. G. Hogan, 2R, 5
R. L. Jackson, 5
T. D. Luckey, 5
D. T. Mayer, 2
D. K. Meyer, 1
B. L. O'Dell, 2, 5
W. S. Platner, 1
J. E. Randall, 1
B. A. Westfall, 1, 3

FLORISSANT
P. L. Varney, 6

JOPLIN
R. L. Ferguson, 4

KANSAS CITY
B. W. Beadle, 2
L. L. Eisenbrandt, 3

KIRKSVILLE
J. S. Denslow, 1
F. T. Dun, 1
S. F. Howell, 2
I. M. Korr, 1

ST. LOUIS
W. M. Allen, 1
P. Berg, 2
R. M. Bethke, 2, 5
R. J. Bing, 1
G. H. Bishop, 1
H. T. Blumenthal, 4
G. O. Broun, 4
D. H. Brown, 2
S. C. Bukantz, 6
H. B. Burch, 2
M. H. Clare, 1
S. Cohen, 2
Melvin Cohn, 2
Mildred Cohn, 2
B. Commoner, 2
C. F. Cori, 2
R. K. Crane, 2
H. Davis, 1
E. W. Dempsey, 1
H. M. Dixon, 4
E. A. Doisy, Jr., 2
E. A. Doisy, Sr., 2
H. N. Eisen, 6
W. H. Elliott, 2
J. Erlanger, 1R
M. S. Fleisher, 4, 6
M. E. Friedkin, 2
A. S. Gilson, Jr., 1
H. T. Graham, 1, 3
D. M. Green, 1, 3
C. G. Harford, 6
J. C. Harkin, 4
W. J. Harrington, 4
A. F. Hartmann, 2
W. S. Hartroft, 4
P. Heinbecker, 1
A. B. Hertzman, 1
F. E. Hunter, Jr., 2, 3
J. Hurwitz, 2
P. A. Katzman, 2
J. E. Kirk, 2
A. Kornberg, 2
G. L. Kreezer, 1
P. E. Lacy, 4
W. M. Landau, 1
L. Loeb, 1R, 4
O. H. Lowry, 2, 3
S. A. Luse, 4
S. E. Mayer, 3
C. V. Moore, 4, 5
C. A. Moyer, 1
X. J. Musacchia, 1
C. H. Neilson, 2
R. M. O'Neal, 4
H. Pinkerton, 4
P. W. Preisler, 2
A. W. Richardson, 1
E. Robins, 2
E. Ronzoni, 2
A. Roos, 1
T. Rosebury, 6
R. W. Schlesinger, 6
G. M. Schoepfle, 1
H. A. Schroeder, 1
P. A. Shaffer, 2
R. E. Shank, 2
S. Sherry, 1
W. J. Siebert, 4
M. Silberberg, 4
R. Silberberg, 4
W. Sleator, Jr., 1
J. R. Smith, 1
M. Somogyi, 2R
D. R. Strength, 2
J. L. Strominger, 2, 3
S. A. Thayer, 2
W. A. Thomas, 4
S. F. Velick, 2
N. J. Wade, 1
Z. Wallen-Lawrence, 2
T.-Y. Wang, 2
T. E. Weichselbaum, 2
H. L. White, 1
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B. W. Zweifach, 1

APO, NEW YORK CITY
H. G. Armstrong, 1R

NORWICH
R. J. Main, 1
M. F. Paul, 2

OAKDALE
L. K. Riggs, 2R

OSSINING
L. C. Miller, 3

OWEGO
L. W. Famulener, 6

PEARL RIVER
P. H. Bell, 2
H. P. Broquist, 2
H. R. Cox, 6
I. S. Danielson, 2
W. C. Grant, 1
W. Hausmann, 2
B. L. Hutchings, 2
T. H. Jukes, 2, 5
J. T. Litchfield, Jr., 3
J. J. Oleson, 2
E. L. Patterson, 2
G. R. Sharpless, 5
E. L. R. Stokstad, 2, 5
W. L. Williams, 2

PORT WASHINGTON
N. Molomut, 6
W. H. Pearlman, 2

POUGHKEEPSIE
R. E. Conklin, 1

QUEENS VILLAGE
F. Co Tui, 3

RENSSELAER
A. Arnold, 5
E. W. Dennis, 3, 6
R. M. Gesler, 3
L. Grumbach, 1
J. O. Hoppe, 3
A. M. Lands, 1, 3
J. R. Lewis, 3
F. P. Luduena, 3
E. W. McChesney, 1
M. L. Tainter, 1, 3
R. L. Thompson, 6

RICHMOND HILL
H. Blumberg, 3, 5

ROCHESTER
E. F. Adolph, 1
E. L. Alling, 4
S. R. Ames, 2
W. F. Bale, 1
H. A. Blair, 1
W. R. Bloor, 1R, 2R
C. G. Bly, 4
G. W. Casarett, 4
E. A. K. Culler, 1R
A. L. Dounce, 2
N. D. Embree, 2
D. W. Fassett, 3
W. O. Fenn, 1
E. L. Gasteiger, Jr., 1
R. Gerschman, 1
E. LeB. Gray, 1
P. L. Harris, 2, 5
F. L. Haven, 2
W. B. Hawkins, 4
E. E. Hawley, 5
E. E. Hays, 2
J. R. Hinshaw, 4
H. C. Hodge, 2, 3
J. W. Howland, 1, 4
J. P. Lambooy, 2
G. V. Marinetti, 2
K. E. Mason, 5
E. A. Maynard, 3
W. S. McCann, 2, 5
L. L. Miller, 2
H. R. Morgan, 6
M. Morrison, 2
J. J. Morton, 4R
J. Murlin, 1R, 2R, 5R
E. S. Nasset, 1, 5
W. F. Neuman, 2, 3
T. R. Noonan, 1
J. L. Orbison, 4
H. E. Pearse, 4
J. C. Peskin, 1
W. T. Pommerenke, 1
F. S. Robscheit-Robbins, 1, 4
H. L. Rosenthal, 2
A. Rothstein, 1, 3
K. Salomon, 2
H. W. Scherp, 6
J. U. Schlegel, 1
J. K. Scott, 4
W. K. Smith, 1
J. N. Stannard, 1, 3
E. H. Stotz, 2
R. Terry, 4
G. H. Whipple, 1R, 4R
R. F. Witter, 2

ROCKVILLE CENTER
E. J. Quinn, 2R, 5R

ROME
A. La Belle, 1

ROSLYN
S. A. Berson, 1

ROSLYN HEIGHTS
A. L. Florman, 6
E. Perlman, 6

SARATOGA SPRINGS
J. M. Reiner, 1

SCARSDALE
E. Baumann, 2R
R. J. Block, 2, 5
T. E. Boyd, 1
C. N. Frey, 5

SOUTHAMPTON
W. W. Brandes, 4

SUNMOUNT
F. Klemperer, 2

SUNNYSIDE
M. Weichsel, 6

SYRACUSE
P. B. Armstrong, 1
W. R. Boss, 1
H. L. Dickison, 3
H. F. Diermeier, 3
M. S. Dooley, 3R
A. E. Farah, 3
H. A. Feldman, 6
J. A. Halsted, 4
J. B. Hoekstra, 3
F. P. Knowlton, 1R
V. F. Lindeman, 1
C. W. Lloyd, 1
S. Mallov, 3
J. M. McKibbin, 2
G. K. Moe, 1
O. H. Müller, 1
J. B. Preston, 3
B. R. Rennick, 3
D. A. Richert, 2
J. S. Robb, 1, 3
W. R. Ruegamer, 2
O. W. Sartorius, 1
M. P. Schulman, 2
H. H. Swain, 3
H. M. Tepperman, 1
J. Tepperman, 1, 3
I. C. Wells, 2
W. W. Westerfeld, 2
P. N. Witt, 3
V. J. Wulff, 1

TARRYTOWN
B. F. Daubert, 2

TROY
G. M. Sickles, 6

TUCKAHOE
E. J. de Beer, 3
C. H. Ellis, 1
I. Goodman, 2
G. H. Hitchings, 2
J. R. M. Innes, 4
R. Koster, 3
S. Norton, 3
J. C. Seed, 3

UPTON
V. P. Bond, 1
G. C. Cotzias, 4
E. P. Cronkite, 1
H. J. Curtis, 1
L. K. Dahl, 4
R. Drew, 6
L. E. Farr, 4
L. V. Hankes, 2
W. L. Hughes, 2
J. R. Klein, 2
D. E. Koshland, Jr., 2
M. E. Koshland, 6
P. G. Lefevre, 1
S. W. Lippincott, 4
M. Maxfield, 1
L. F. Nims, 1
E. A. Popenoe, 2
J. S. Robertson, 1
W. W. Shreeve, 2
R. Steele, 2
R. D. Stoner, 4
D. D. Van Slyke, 2

UTICA
N. S. Olsen, 1, 2

VALHALLA
M. H. Williams, Jr., 1

VALLEY STREAM
L. C. Chesley, 1

WHITE PLAINS
D. A. Boroff, 6

YONKERS
R. H. Broh-Kahn, 1
G. Ungar, 1

NORTH CAROLINA

BILTMORE
M. H. Givens, 1R, 2R

CHAPEL HILL
C. E. Anderson, 2
B. Baggett, 2
K. M. Brinkhous, 4
T. C. Butler, 3
W. J. Cromartie, 4
T. Z. Csaky, 1, 3
E. C. Curnen, 6
F. W. Ellis, 3
J. H. Ferguson, 1
C. W. Gottschalk, 1
J. B. Graham, 4
E. M. Irvin, 2
J. L. Irvin, 2
R. D. Langdell, 4
G. P. Manire, 6
W. S. McClellan, 1
A. T. Miller, Jr., 1
G. D. Penick, 4
J. H. Perlmutt, 1
J. H. Schwab, 6
H. Tauber, 2
L. G. Welt, 1

DURHAM
R. D. Baker, 4
J. W. Beard, 4, 6
R. F. Becker, 1
F. Bernheim, 2, 3
W. E. De Turk, 3
G. S. Eadie, 1, 3
F. L. Engel, 1
J. W. Everett, 1
McC. Goodall, 1
K. S. Grimson, 1, 3
F. G. Hall, 1
P. Handler, 2, 5
J. P. Hendrix, 3
J. B. Hickam, 1
W. E. Hull, 1
H. Kamin, 2
W. Kempner, 1

NORTH CAROLINA — NORTH DAKOTA — OHIO — OKLAHOMA — OREGON — PENNSYLVANIA

H. Lowenbach, 1
G. Margolis, 4
J. E. Markee, 1
F. D. McCrea, 3
J. R. Overman, 6
K. E. Penrod, 1
S. Rogers, 4
B. Schmidt-Nielsen, 1
K. Schmidt-Nielsen, 1
G. W. Schwert, 2
D. T. Smith, 5, 6
S. G. Smith, 5
E. A. Stead, Jr., 1
H. M. Taylor, 4
J. V. Warren, 1
K. M. Wilbur, 1
J. W. Wilson, 1

FLATROCK
H. Laurens, 1R

GREENSBORO
M. F. Williams, 1

GUILFORD COLLEGE
C. I. Reed, 1R

HENDERSONVILLE
R. E. Remington, 2R, 5R

MOUNT PLEASANT
A. E. Woodward, 1R

RALEIGH
H. W. Garren, 1
G. Matrone, 5
G. H. Satterfield, 2, 5
S. T. Walton, 6
G. H. Wise, 5

SALISBURY
J. E. Gregory, 6

WINSTON-SALEM
C. Artom, 2
J. R. R. Bobb, 1
A. B. Denison, Jr., 1
H. D. Green, 1, 3
R. A. Groat, 1
J. M. Little, 1, 3
M. P. Spencer, 1
M. A. Swanson, 2
W. A. Wolff, 2

NORTH DAKOTA

FARGO
D. F. Eveleth, 2

GRAND FORKS
W. E. Cornatzer, 2
B. De Boer, 1, 3
H. E. Ederstrom, 1

OHIO

AKRON
L. Catron, 4

ATHENS
F. A. Hellebrandt, 1R

CHAGRIN FALLS
R. W. Eckstein, 1

CINCINNATI
G. H. Acheson, 3
D. H. Blankenhorn, 4
H. Braunstein, 4
B. B. Brown, 3
J. J. Cohen, 1
G. M. Conzelman, Jr., 3
M. L. Cooper, 6
D. I. Crandall, 2
G. Eckstein, 1
M. H. Fischer, 1, 2R
E. A. Gall, 4
G. M. Guest, 2
L. G. Herrmann, 4
F. F. Heyroth, 2R
D. E. Jackson, 1R, 3R
J. B. Kahn, Jr., 3
R. A. Kehoe, 1
B. H. Landing, 4
M. A. Logan, 2
W. D. Lotspeich, 1
M. B. Macht, 1
F. H. Mattson, 2, 5
B. F. Miller, 2
Z. B. Miller, 2
C. A. Mills, 1, 2
F. J. Murray, 6
L. J. Pecora, 1
I. Ruchman, 6
A. B. Sabin, 6
L. H. Schmidt, 2, 3
C. C. Smith, 3
H. E. Stokinger, 3, 6
J. L. Svirbely, 3
S. Tashiro, 1R, 2R
E. F. Van Maanen, 3
C. K. Weichert, 1
H. W. Werner, 3
C. D. West, 1

CIRCLEVILLE
A. W. Bosworth, 2R, 5R

CLEVELAND
C. S. Beck, 4
R. M. Berne, 1
E. H. Bloch, 6
J. W. Blunt, 4
P. E. Boyle, 4
J. J. Clemmons, 4
A. C. Corcoran, 1, 3
F. W. Denny, Jr., 6
J. H. Dingle, 6
R. Dominguez, 1
E. E. Ecker, 4, 6
G. L. Farrell, 1
J. B. Garst, 2
H. S. Ginsberg, 6
H. Goldblatt, 1, 4
D. A. Goldthwait, 2
E. Haas, 2
D. B. Hackel, 1, 4
H. K. Hellerstein, 1
H. Hirschmann, 2
H. A. Hunscher, 5
W. S. Jordan, 6
N. Kaufman, 4
T. D. Kinney, 4
J. Kleinerman, 4
S. Koletsky, 4
L. O. Krampitz, 2, 6
J. Larner, 2
P. S. Lavik, 2
J. R. Leonards, 2
I. H. Lepow, 6
C. Leuchtenberger, 4
S. Levey, 2
M. N. Levy, 1
L. A. Lewis, 1
G. M. C. Masson, 1
F. R. Mautz, 1
J. W. McCubbin, 1
R. D. Moore, 4
A. R. Moritz, 4
I. H. Page, 1, 2
R. F. Parker, 4, 6
C. H. Rammelkamp, 6
O. A. Ross, 4
I. Rothchild, 1
H. Rudney, 2
H. Z. Sable, 2
H. Sachs, 2
W. Sakami, 2
P. R. Salerno, 3
G. Sayers, 1, 3
E. E. Selkurt, 1
L. Share, 1
R. A. Shipley, 1
E. A. Smith, 1
T. Sollmann, 1R, 2R, 3
J. Spizizen, 6
A. B. Stavitsky, 6
J. R. Stern, 2
E. W. Sutherland, Jr., 2, 3
M. F. Utter, 2
J. T. Wearn, 1
J. M. Werle, 1
C. J. Wiggers, 1R, 3R
H. G. Wood, 2
G. W. Wright, 1

CLEVELAND HEIGHTS
W. J. Kolff, 1
F. C. Robbins, 6
N. C. Wetzel, 5

COLUMBUS
C. A. Angerer, 1
J. M. B. Bloodworth, Jr., 4
E. Bozler, 1
G. A. Brecher, 1
J. B. Brown, 2, 5
K. A. Brownell, 1
G. M. Curtis, 4R
F. E. Deatherage, 2
C. A. Doan, 4
M. Dodd, 6
R. C. Grubbs, 1
F. A. Hartman, 1R
F. A. Hitchcock, 1, 5
C. D. Leake, 1, 3
M. A. Lessler, 1
W. G. Myers, 1
E. Ogden, 1
M. B. Patton, 5
L. A. Sapirstein, 1
S. Saslaw, 6
D. G. Scarpelli, 4
G. Y. Shinowara, 2
R. W. Stacy, 1
T. S. Sutton, 5
J. F. Tomashefski, 1
E. von Haam, 4
G. C. Webster, 2
B. K. Wiseman, 4
M. L. Wolfrom, 2

DAYTON
J. F. Hall, Jr., 1
J. W. Heim, 1
R. F. Kline, 1
H. O. Parrack, 1

FAIRBORN
E. P. Hiatt, 1

OXFORD
W. C. McNelly, 1

TOLEDO
E. L. Burns, 4
L. A. Levison, 6
B. Steinberg, 4, 6

WOOSTER
W. E. Krauss, 2, 5
A. L. Moxon, 2

WORTHINGTON
M. Koehne, 5R

YELLOW SPRINGS
L. C. Clark, Jr., 1
P. W. K. Rothemund, 2
P. Webb, 1

YOUNGSTOWN
A. Goudsmit, 1

OKLAHOMA

NORMAN
S. H. Wender, 2

OKLAHOMA CITY
R. M. Bird, 1
R. Caputto, 2
M. R. Everett, 2
A. A. Hellbaum, 1, 3
M. N. Huffman, 2
W. E. Jaques, 4
A. Kurtz, 2
R. W. Payne, 3
J. A. Schilling, 4
F. Sheppard, 2
H. A. Shoemaker, 3
P. W. Smith, 1, 3
A. N. Taylor, 1
R. E. Trucco, 2
S. Wolf, 1

STILLWATER
W. D. Gallup, 2
V. G. Heller, 2R, 5R
L. M. Henderson, 2
R. MacVicar, 2, 5

OREGON

CORVALLIS
A. M. Bahrs, 1
J. S. Butts, 2, 5
V. H. Cheldelin, 2, 5
M. L. Fincke, 5
J. R. Haag, 2, 5
H. M. Krueger, 1, 3
R. W. Newburgh, 2
C. A. Storvick, 5
C. H. Wang, 2
R. Wulzen, 1R

EUGENE
F. J. Reithel, 2
B. T. Scheer, 1

OSWEGO
A. C. Kirchhof, 3

PORTLAND
G. M. Austin, 1
C. H. Beatty, 1
W. D. Blake, 1
J. M. Brookhart, 1
N. A. David, 3
R. S. Dow, 1
H. F. Haney, 1
C. G. Heller, 1
I. A. Manville, 1
H. S. Mason, 2
E. L. McCawley, 3
E. L. Oginsky, 2
R. D. Peterson, 2
N. M. Phatak, 3
F. B. Queen, 4
L. E. Thomas, 2
W. R. Todd, 2, 5
A. R. Tunturi, 1
J. T. Van Bruggen, 2
E. S. West, 2

PENNSYLVANIA

BALA-CYNWYD
P. Hitchcock, 3
W. J. Rashkind, 1

BRADFORD
A. Dury, 1

BRISTOL
C. V. Smythe, 2

BRYN MAWR
E. A. Bliss, 6
A. N. Richards, 1R, 2R, 3R

CHELTENHAM
H. Goldberg, 1

FOREST GROVE
E. W. Flosdorf, 6

GETTYSBURG
J. H. Hewetson, 5

HAVERFORD
R. E. Forster, II, 1

HAVERTOWN
R. A. McLean, 3

JOHNSVILLE
J. D. Hardy, 1
R. W. Lawton, 1
A. M. Stoll, 1

MEDIA
L. J. Saul, 1

NEWTOWN SQUARE
M. G. Sevag, 2, 6

NORRISTOWN
J. F. McClendon, 1R, 2R, 5R

PHILADELPHIA
P. M. Aptekman, 6
J. D. Aronson, 4, 6
D. M. Aviado, Jr., 1, 3
C. Bachman, 2
D. H. Baeder, 3
W. W. Baker, 3
T. C. Barnes, 1, 3
W. J. Beckfield, 4
F. B. Benjamin, 1
M. A. Bennett, 2
W. S. Blakemore, 1
A. Bondi, 6
S. Y. Botelho, 1
P. A. Bott, 1, 2
M. J. Boyd, 2
C. Breedis, 4

PENNSYLVANIA — PUERTO RICO — RHODE ISLAND — SOUTH CAROLINA — SOUTH DAKOTA — TENNESSEE

H. Brieger, 3
B. A. Briody, 6
J. R. Brobeck, 1
F. P. Brooks, 1
C. P. Brown, 6
B. Calesnick, 3
A. Cantarow, 1, 3
W. W. Chambers, 1
B. Chance, 1, 2
F. C. Charalampous, 2
H. F. Chase, 3
P. O. Chatfield, 1
E. R. Clark, 1R
J. K. Clark, 1
S. S. Cohen, 2
D. R. Coman, 4
H. L. Conn, Jr., 1
L. Cook, 3
J. M. Coon, 3
S. A. D'Angelo, 1
R. E. Davies, 2
R. H. De Meio, 2
J. R. Di Palma, 1, 3
F. C. Dohan, 1
D. L. Drabkin, 2, 5
N. B. Dreyer, 3
R. D. Dripps, 1, 3
I. N. Dubin, 4
A. B. Du Bois, 1
J. E. Eckenhoff, 1
M. R. Ehrenstein, 2
W. Ehrich, 4
H. J. Eichel, 2
G. Eisenman, 1
J. R. Elkinton, 1
S. Ellis, 3
J. D. Evans, 1
G. E. Farrar, Jr., 3
M. Fay, 2
E. J. Fellows, 3
L. K. Ferguson, 4
L. B. Flexner, 1, 2
J. A. Flick, 6
N. F. Floyd, 2
M. H. F. Friedman, 1
W. L. Gaby, 6
T. S. Githens, 1R
J. M. Glassman, 3
D. R. Goddard, 2
J. W. Goddard, 4
K. Goodner, 6
W. G. Gordon, 2
H. Green, 2
S. M. Greenberg, 5
E. M. Greisheimer, 1
S. Gurin, 2
P. Gyorgy, 2, 5
J. H. Hafkenschiel, Jr., 1, 3
H. R. Hafkesbring, 1
C. Harris, 4
T. N. Harris, 6
J. A. Harrison, 6
N. Haugaard, 2
F. X. Hausberger, 1
L. V. Heilbrunn, 1
A. E. Heming, 3
W. Henle, 6
J. S. Hepburn, 2R
D. E. Holtkamp, 3
O. Horwitz, 1
J. Hughes, 1
M. H. Jacobs, 1
J. H. Jones, 2, 5
F. Karush, 2, 6
L. A. Kazal, 2
J. J. Kocsis, 3
G. B. Koelle, 3
J. A. Kolmer, 6R
S. A. Komarov, 1
H. Koprowski, 6
C. P. Kraatz, 3
E. B. Krumbhaar, 1R, 4R
C. J. Lambertsen, 1, 3
T. F. Lavine, 2
L. Levenbook, 1
D. H. Lewis, 1
W. H. Lewis, 1R
G. N. Ling, 1
I. Live, 6
E. Lodholz, 1R
S. Lorber, 1
F. D. Lukens, 1
M. B. Lurie, 4, 6
C. M. MacLeod, 6
R. W. Manthei, 3
J. Marsh, 2
G. J. Martin, 2
P. A. Mattis, 3
S. McD. McCann, 1
G. P. McCouch, 1
F. H. McCutcheon, 1
M. McCutcheon, 4
W. F. McLimans, 6
T. L. McMeekin, 2
G. Medes, 2
V. Menkin, 1, 4, 6
R. E. Miller, 6
L. C. Mills, Jr., 3
H. Montgomery, 1
J. H. Moyer, III, 3
S. Mudd, 1, 4, 6
P. Oesper, 2
E. A. Ohler, 1
M. J. Oppenheimer, 1
W. M. Parkins, 1
K. E. Paschkis, 1
E. K. Patterson, 2
S. M. Peacock, Jr., 1
R. Penneys, 1
L. H. Peterson, 1
I. J. Pincus, 1
H. L. Price, 1, 3
H. L. Ratcliffe, 4
I. S. Ravdin, 1, 4
E. A. Reed, 1
S. P. Reimann, 1, 4
J. G. Reinhold, 2
M. Reynolds, 1
J. E. Rhoads, 1
F. Rieders, 3
C. Riegel, 2
H. W. Robinson, 2
K. Rodahl, 1
C. S. Rose, 2
H. Rosen, 3
O. Rosenthal, 2
J. L. d'A. Roth, 1
J. S. Roth, 2
D. O. Rudin, 1
R. J. Rutman, 2
C. F. Schmidt, 1, 3
J. J. Schneider, 2
J. Schultz, 2
D. Scott, Jr., 1
J. C. Scott, 1
F. B. Seibert, 2
J. Seifter, 3
R. W. Sevy, 1
H. Shapiro, 1
H. Shay, 1
W. B. Shelley, 1
N. H. Sloane, 2
H. A. Sloviter, 2
J. C. Small, 4
L. Smith, 2
J. Smolens, 6
S. Sorof, 2
E. H. Spaulding, 6
J. N. Spencer, 3
E. A. Spiegel, 1
M. Spiegel-Adolf, 2
M. A. Spirtes, 3
J. J. Spitzer, 1
J. M. Sprague, 1
G. F. Springer, 6
R. D. Squires, 1
W. C. Stadie, 2R
E. Staple, 2
I. Starr, 1, 3
J. A. Stekol, 2, 5
W. B. Stewart, 1
F. W. Sunderman, 2
W. H. Telfer, 6
P.-O. Therman, 1
R. Tislow, 1, 3
L. M. Tocantins, 1
G. Toennies, 2
L. Tuft, 6
H. M. Vars, 2, 5
B. M. Wagner, 4
J. M. Waldron, 1
L. Weil, 2
S. Weinhouse, 2
C. Weiss, 4, 6
S. Weiss, 2
H. A. Wendel, 3
M. P. Wiedeman, 1
F. J. Wiercinski, 1
D. W. Wilson, 1R, 2
M. G. Wohl, 5
H. C. Wood, Jr., 3R
I. T. Zeckwer, 1, 4
I. Zeidman, 4
F. Zilliken, 2
C. A. Zittle, 2

PITTSBURGH
R. Abrams, 2
A. E. Axelrod, 2, 5, 6
L. V. Beck, 1, 3
H. S. Belding, 1
R. Bentley, 2
H. Bloch, 6
F. S. Cheever, 6
L. A. Cohen, 1
G. J. Cox, 2, 5
L. H. Cretcher, 2R
L. H. Criep, 6
T. S. Danowski, 1
N. C. Davis, 2
F. J. Dixon, Jr., 4, 6
A. Edelmann, 1
E. Ellenbogen, 2
R. S. Farr, 4, 6
J. D. Feldman, 4
M. A. Fischer, 2
B. Fisher, 1
E. R. Fisher, 4
F. F. Foldes, 3
M. Fuld, 2
O. Gawron, 2
H. M. Gezon, 6
M. I. Gluckman, 3
R. C. Grauer, 4
P. Gross, 4
W. McD. Hammon, 4, 6
E. R. Hart, 3
K. Hofmann, 2
T. K. Kruse, 1, 3
W. J. Kuhns, 6
G. R. Lacy, 4R
M. A. Lauffer, Jr., 2
J. Leighton, 4
J. H. Lewis, 1
I. Lieberman, 2
A. S. Marrazzi, 1, 3
S. P. Masouredis, 1, 6
P. H. Maurer, 6
R. H. McCoy, 2, 5
W. McElroy, 2
P. L. McLain, 1, 3
I. A. Mirsky, 1
R. A. Moore, 4
T. J. Moran, 4
C. Moses, 1
J. D. Myers, 1
R. E. Olson, 2, 5
H. H. Permar, 4
A. G. Renfrew, 2
C. H. W. Ruhe, 1
J. E. Salk, 6
A. H. Stock, 6
F. A. Taylor, 2
F. I. Tsuji, 2
W. O. Weigle, 6
J. S. Youngner, 6

RADNOR
R. M. Tomarelli, 2, 5

STATE COLLEGE
R. A. Dutcher, 2R, 5R
E. B. Forbes, 1R, 5R
E. D. Wilson, 5

SWARTHMORE
S. Kletzien, 5

TELFORD
E. S. Mendelson, 1

UNIVERSITY PARK
A. A. Benson, 2
A. Black, 5
R. V. Boucher, 5
M. L. Dobbs, 5
C. E. French, 5
N. B. Guerrant, 2, 5
M. F. Mallette, 2
R. C. Miller, 5
R. L. Pike, 5
R. W. Swift, 5

VILLANOVA
E. L. Foltz, 1, 3

WAYNE
W. P. Boger, 3
A. E. Livingston, 1R, 3R

WEST CHESTER
M. S. McCouch, 1

WEST POINT
L. E. Arnow, 2
K. H. Beyer, Jr., 1, 3
J. Charney, 2
R. A. Harte, 5
J. W. Huff, 2
O. C. Liu, 6
H. M. Peck, 3
C. C. Porter, 2
R. B. Stebbins, 4
K. M. Stevens, 6
C. A. Stone, 3
A. A. Tytell, 2, 6
V. G. Vernier, 3
C. A. Winter, 1, 3

WILLOW GROVE
C. F. Gell, 1

WYNNEWOOD
H. A. Reimann, 4

YEADON
W. C. Foster, 1

PUERTO RICO

HATO REY
R. M. Reinecke, 1

RIO PIEDRAS
L. J. Roberts, 5

SAN JUAN
C. F. Asenjo, 2, 5
C. B. Casas, 1
M. Goettsch, 2, 5
J. Szepsenwol, 1
D. B. Tyler, 1, 3

RHODE ISLAND

JAMESTOWN
S. L. Wright, 2

PROVIDENCE
P. F. Fenton, 1, 5
H. Kabat, 1
C. Pfaffmann, 1
L. A. Riggs, 1
F. G. Sherman, 1
C. A. Stuart, 6
J. W. Wilson, 1, 4

SOUTH CAROLINA

CHARLESTON
T. G. Bernthal, 1
T. B. Calhoon, 1
F. W. Kinard, 1
M. H. Knisely, 1
J. A. Richardson, 3
R. P. Walton, 3

COLUMBIA
J. D. Reese, 4

NEWBERRY
F. N. Martin, Jr., 3

SOUTH DAKOTA

BROOKINGS
O. E. Olson, 2

VERMILLION
M. A. Heinrich, Jr., 3
F. E. Kelsey, 3
F. K. O. Kelsey, 3
D. M. MacCanon, 1
W. O. Read, 1

TENNESSEE

CHATTANOOGA
S. H. Auerbach, 4

COOKEVILLE
J. T. Skinner, 2

KNOXVILLE
F. L. MacLeod, 2, 5

TENNESSEE — TEXAS —UTAH —VERMONT —VIRGINIA — WASHINGTON

G. MacLeod, 2R, 5R
S. R. Tipton, 1

MEMPHIS
R. H. Alden, 1
D. A. Brody, 1
S. R. Bruesch, 1
N. R. Di Luzio, 1
A. D. Dulaney, 6
W. B. Dunham, 6
C. C. Erickson, 4
A. Ganz, 3
O. S. Gibbs, 3
W. M. Hale, 4, 6
M. Klein, 4
K. A. Kulken, 2
N. D. Lee, 2
H. S. Louckes, 1
E. L. McCandless, 1
D. B. Morrison, 2
T. P. Nash, Jr., 2
R. R. Overman, 1
J. P. Quigley, 1, 3
H. C. Schmeisser, 4
C. W. Sheppard, 1
D. H. Sprunt, 4, 6
G. B. Spurr, 1
L. Van Middlesworth, 1
W. L. Williams, 4
J. L. Wood, 2
R. A. Woodbury, 1, 3
J. M. Young, 4
D. B. Zilversmit, 1

MOUNTAIN HOME
W. Fleischmann, 1

NASHVILLE
A. D. Bass, 3
F. R. Blood, 1
M. T. Bush, 3
R. J. Cazort, 3
J. G. Coniglio, 2
W. J. Darby, 2, 5
H. Goldie, 6
F. Gollan, 1
C. M. Greer, 3
P. F. Hahn, 1, 4
E. G. High, 5
W. C. Holland, 3
P. D. Lamson, 1R, 3R
W. J. McGanity, 5
G. R. Meneely, 1, 4
H. C. Meng, 1
A. S. Minot, 1
V. A. Najjar, 2
E. V. Newman, 1
C. R. Park, 1, 2
J. H. Park, 2
R. L. Post, 1
B. H. Robbins, 3
C. S. Robinson, 2R
D. T. Rolfe, 1
J. L. Shapiro, 4
O. Touster, 2
H. D. West, 2
C. W. Woodruff, 5
J. B. Youmans, 5

OAK RIDGE
N. G. Anderson, 1
S. F. Carson, 2
W. E. Cohn, 2
C. C. Congdon, 4
D. G. Doherty, 2
M. I. Dolin, 2
A. Hollaender, 1
G. C. Kyker, 2
T. Makinodan, 6
G. D. Novelli, 2
T. T. Odell, Jr., 1
R. D. Owen, 6
C. H. Steffee, 4
N. E. Tolbert, 2
A. C. Upton, 4
E. Volkin, 2

TEXAS

ABILENE
F. W. Dunn, 2

AUSTIN
J. E. Davis, 1, 3
R. E. Eakin, 2
J. W. Foster, 2
J. B. Gilbert, 2
J. M. Ravel, 2
L. J. Reed, 2
W. Shive, 2
H. M. Sweeney, 1
R. J. Williams, 2
O. Wyss, 2

COLLEGE STATION
J. R. Couch, 2, 5
H. O. Kunkel, 2
C. M. Lyman, 2, 5
R. Reiser, 2
L. R. Richardson, 5

DALLAS
H. W. Ades, 1
J. G. Bishop, 1
W. P. Blackmore, 3
R. T. Capps, 3
A. Goth, 3
A. Grollman, 1, 3
S. Haberman, 6
F. Harrison, 1
R. W. Lackey, 1
M. F. Mason, 2
E. E. Muirhead, 1, 4
A. F. Reid, 1
F. T. Rogers, 1R
M. B. Slomka, 3
R. T. Smith, 4, 6
S. E. Sulkin, 6
H. C. Tidwell, 2, 5
J. C. Vanatta, 1

FORT SAM HOUSTON
E. A. Blair, 1

GALVESTON
C. R. Allen, 1
D. B. Calvin, 1, 2
G. A. Emerson, 3
R. L. Gregory, 1
M. M. Guest, 1
C. E. Hall, 1
A. E. Hansen, 4, 5
G. R. Herrmann, 4R
H. C. Hopps, 4, 6
W. W. Nowinski, 1
A. A. Ormsby, 2
A. Packchanian, 6
T. C. Panos, 4
M. Pollard, 4
C. M. Pomerat, 1
E. L. Porter, 1
E. J. Poth, 1
R. H. Rigdon, 4
A. Ruskin, 1
G. R. Seaman, 1
H. G. Swann, 1
H. F. Wiese, 5

HOUSTON
E. C. Alvord, Jr., 4
J. Awapara, 2
E. Beerstecher, Jr., 2
K. L. Burdon, 6
V. M. Doctor, 2
R. Edelberg, 1
J. R. Elliott, 1
C. Fortier, 1
J. A. Greene, 1
T. H. Greiner, 3
A. C. Griffin, 2
R. Guillemin, 1
B. Halpert, 4
C. A. Handley, 3
G. M. Higgins, 5R
H. E. Hoff, 1
R. A. Huggins, 1, 3
D. Karp, 3
A. S. Keats, 3
P. Kellaway, 1
A. Kirschbaum, 4
S. Kit, 2
J. L. Rabinowitz, 2
W. O. Russell, 4
R. A. Seibert, 3
E. L. Smith, 1
R. V. Talmage, 1
J. B. Walker, 2

HUNT
A. E. Meyer, 1R

RANDOLPH FIELD
R. W. Bancroft, 1
O. O. Benson, Jr., 1
H. G. Clamann, 1
R. T. Clark, Jr., 1
H. B. Gerstner, 1
L. J. Milch, 3
H. Strughold, 1
P. C. Tang, 1

SAN ANTONIO
H. F. Adler, 1
H. J. Schattenberg, 4
R. D. Templeton, 1
N. T. Werthessen, 1
H. S. Wigodsky, 1

TEMPLE
N. C. Hightower, Jr., 1
R. C. Little, 1

UTAH

LOGAN
C. Biddulph, 1
D. A. Greenwood, 3
L. E. Harris, 5

OGDEN
W. A. Bennett, 4
S. P. Hayes, 6

PROVO
D. M. Donaldson, 6
L. P. Vernon, 2

SALT LAKE CITY
M. D. Armstrong, 2
H. L. Borison, 1, 3
W. H. Carnes, 4
G. E. Cartwright, 5
S. R. Dickman, 2
T. F. Dougherty, 1
D. W. Esplin, 3
C. Fenning, 1
E. G. Fingl, 3
L. P. Gebhardt, 6
L. S. Goodman, 1, 3
F. D. Gunn, 4
R. B. Harvey, 1
S. C. Harvey, 3
H. Hecht, 1
C. C. Hunt, 1
B. V. Jager, 6
L. W. Jarcho, 1
R. S. Jones, 4
J. R. Kimmel, 2
W. S. Loewe, 3
S. Marcus, 6
A. R. Martin, 1
C. McNeil, 6
E. R. Perl, 1
L. T. Samuels, 2, 3, 5
K. N. F. Shaw, 2
E. L. Smith, 2
M. L. Sweat, 2
E. A. Swinyard, 3
J. L. Van Lancker, 4
H. R. Warner, 1
N. Weissman, 2
M. M. Wintrobe, 4
D. M. Woodbury, 3

VERMONT

BRADFORD
S. B. Hooker, 6R

BURLINGTON
A. H. Chambers, 1
R. W. Coon, 4
E. C. Gjessing, 2
C. Hanna, 3
R. Korson, 4
E. Lepeschkin, 1
W. H. Macmillan, 3
H. B. Pierce, 2, 5
W. Van B. Robertson, 2
F. J. M. Sichel, 1
D. J. Smith, 1, 3
W. L. Wilson, 1

VIRGINIA

ARLINGTON
G. K. Cotts, 3
C. W. Shilling, 1
F. Sperling, 3

BLACKSBURG
R. W. Engel, 5

CHARLOTTESVILLE
W. P. Anslow, Jr., 1, 2
E. D. Brand, 3
S. W. Britton, 1R
J. R. Cash, 4
A. Chamitin, 2
E. L. Corey, 1
A. E. Feller, 6
C. L. Gemmill, 1, 2, 3
D. R. H. Gourley, 1, 3
C. Hoch-Ligeti, 4
H. Jonas, 1
D. W. Kupke, 2
S. Ludewig, 2
R. T. Major, 2
R. W. McGilvery, 2
Q. N. Myrvik, 6
G. C. Pitts, 1

FALLS CHURCH
W. E. Chamberlain, 1
I. Cornman, 1
L. W. Hazleton, 3

HERNDON
G. Woodard, 3

PEDLAR MILLS
E. R. Long, 4R

RICHMOND
L. D. F. Abbott, Jr., 2
F. L. Apperly, 4
R. S. Cunningham, 1R
L. E. Edwards, 1
J. K. Finnegan, 3
E. Fischer, 1
J. C. Forbes, 2
H. B. Haag, 3
N. M. Hajek-Nichols, 1
H. Hoch, 2
E. C. Hoff, 1
E. G. Huf, 1
E. L. Jackson, 3
P. S. Larson, 1, 3
H. McKennis, Jr., 2, 3
L. A. Mounter, 2
J. M. Nichols, 1, 4
J. K. Palmer, 2
J. L. Patterson, Jr., 1
R. W. Ramsey, 1
R. B. Smith, Jr., 3
J. H. Vaughan, 6
J. H. Weatherby, 3

STANARDSVILLE
H. Silvette, 1, 3

WASHINGTON

ENUMCLAW
S. S. Hudack, 4

FORT STEILACOOM
M. A. Kennard, 1
F. W. Maire, 1

PULLMAN
L. L. Campbell, Jr., 2
D. S. Farner, 1
J. R. Gorham, 4, 6
L. L. Madsen, 5
J. McGinnis, 5
C. M. Stevens, 2

SEATTLE
E. P. Benditt, 4
H. S. Bennett, 1
A. Bodansky, 2R
E. A. Boyden, 1
K. Buettner, 1
L. D. Carlson, 1
E. D. Clark, 2R
W. B. Dandliker, 2
J. M. Dille, 3
C. A. Evans, 6
N. B. Everett, 1
G. Falk, 1, 3
D. D. Feller, 1
C. A. Finch, 1
E. H. Fischer, 2
B. W. Gabrio, 2
D. J. Hanahan, 2
H. N. Harkins, 1
F. M. Huennekens, 2
E. G. Krebs, 2
T. A. Loomis, 3

WASHINGTON — WEST VIRGINIA — WISCONSIN — WYOMING — OUTSIDE NORTH AMERICA

B. Mackler, 2
D. F. Magee, 1, 3
A. W. Martin, Jr., 1
J. C. Mathies, 2
L. E. Morris, 3
H. Neurath, 2, 6
H. D. Patton, 1
R. T. Prehn, 4
J. I. Rowntree, 5
T. C. Ruch, 1
R. F. Rushmer, 1
A. M. Scher, 1
C. P. Wangeman, 3
A. A. Ward, Jr., 1
R. S. Weiser, 6
T. C. West, 3
H. Wheelon, 1
P. E. Wilcox, 2
R. H. Williams, 4
J. W. Woodbury, 1
A. C. Young, 1

WEST VIRGINIA

MARTINSBURG
L. Swell, 2

MORGANTOWN
A. C. Higginbotham, 1
R. F. Krause, 2
G. R. McKinney, 3
D. W. Northup, 1
H. Patrick, 5
J. C. Stickney, 1
E. J. Van Liere, 1
D. T. Watts, 3

WISCONSIN

DE FOREST
R. C. Herrin, 1

MADISON
K. Akert, 1
R. A. Alberty, 2
L. Anderson, 2
D. M. Angevine, 4
R. L. Baldwin, 2
C. A. Baumann, 2, 5
H. Beinert, 2
D. T. Berman, 6
H. R. Bird, 5
R. M. Bock, 2
H. D. Bouman, 1
R. H. Burris, 2
P. F. Clark, 6R
P. P. Cohen, 2
F. L. Crane, 2
C. W. Crumpton, 3
H. F. Deutsch, 2
C. A. Elvehjem, 2, 5
J. D. Ferry, 2
D. M. Gibson, 2
D. S. Goldman, 2
D. E. Green, 2
C. J. Gubler, 5
A. E. Harper, 5
C. Heidelberger, 2
L. E. Hokin, 2
M. R. Irwin, 6
M. J. Johnson, 2
F. L. Kozelka, 3
S. A. Kuby, 2
J. J. Lalich, 4
H. A. Lardy, 2
E. M. Larsen, 1
G. A. Le Page, 2
K. P. Link, 2
B. J. Luyet, 1
G. J. Mannering, 3
W. H. McShan, 2
W. J. Meek, 1R
R. K. Meyer, 1
E. C. Miller, 2
J. A. Miller, 2
J. W. Miller, 3
P. R. Morrison, 1, 2
G. C. Mueller, 2
Q. R. Murphy, 1
C. Olson, Jr., 4
O. S. Orth, 1, 3
R. E. Parks, Jr., 3
H. T. Parsons, 2R, 5R
W. H. Peterson, 2R, 5R
P. H. Phillips, 2, 5
Van B. Philpot, Jr., 4
J. W. Porter, 2
Van R. Potter, 2
J. M. Price, 2
H. Reich, 2
M. S. Reynolds, 5
H. P. Rusch, 4
H. J. Sallach, 2
C. V. Seastone, Jr., 6
F. E. Shideman, 3
F. Skoog, 2
M. A. Stahmann, 2
H. Steenbock, 2R, 5
J. E. Steinhaus, 3
W. E. Stone, 1
F. M. Strong, 2
M. L. Sunde, 5
L. J. Teply, 2, 5
H. A. Waisman, 2
G. H. Wang, 1
J. L. Way, 3
J. N. Williams, Jr., 2
J. W. Williams, 2
P. W. Wilson, 2
H. R. Wolfe, 6
C. N. Woolsey, 1
W. B. Youmans, 1, 3

MARSHFIELD
R. D. Taylor, 1

MILWAUKEE
C. H. Altshuler, 4
H. Beckman, 3
J. C. Bock, 2R
J. Y. Chen, 3
L. S. Cunningham, 2
J. H. Fodder, 4
G. W. Gray, 3
L. H. Hamilton, 1
B. Kassell, 2
H. M. Klitgaard, 1
M. Laskowski, 2
H. Levine, 2, 5
S. A. Morell, 2
A. J. Quick, 2, 3
P. M. Roll, 2
B. H. Schlomovitz, 1
J. J. Smith, 1
W. D. Winters, 3

WYOMING

SHERIDAN
J. Blumenstock, 1

CANADA

ALBERTA

EDMONTON
H. B. Collier, 2
A. W. Downs, 1R
L. W. McElroy, 5
J. Tuba, 2

RALSTON
M. K. McPhail, 3

BRITISH COLUMBIA

VANCOUVER
E. C. Black, 1
P. Constantinides, 1
D. H. Copp, 1
C. E. Dolman, 6
J. G. Foulks, 1, 3
S. M. Friedman, 1
H. G. Khorana, 2
R. A. MacLeod, 2
W. J. Polglase, 2
H. V. Rice, 1
H. L. A. Tarr, 2
H. E. Taylor, 4

MANITOBA

WINNIPEG
G. E. Delory, 2R
J. Doupe, 1
P. E. Dresel, 3
J. A. Hildes, 1
M. Nickerson, 1, 3
F. D. White, 2R

NEW BRUNSWICK

LANCASTER
E. A. G. Branch, 4

ST. JOHN
R. J. Collins, 3

NOVA SCOTIA

HALIFAX
W. W. Hawkins, 2
J. G. Kaplan, 1
E. R. M. Kay, 2
C. B. Weld, 1
E. G. Young, 2

LUNENBURG
A. B. Macallum, 2R

ONTARIO

GUELPH
H. D. Branion, 5

KINGSTON
S. A. Bencosme, 4
J. M. R. Beveridge, 5
E. M. Boyd, 3
G. H. Ettinger, 1
R. H. More, 4
M. E. M. Sawyer, 1
R. E. Semple, 1

LEAMINGTON
M. L. Menten, 1R, 4

LONDON
A. C. Burton, 1
J. B. Collip, 1, 2
C. W. Gowdey, 3
F. C. Heagy, 2
G. W. Manning, 1
E. G. D. Murray, 6
R. L. Noble, 1
J. C. Paterson, 4
R. J. Rossiter, 2
G. W. Stavraky, 1, 3
J. A. F. Stevenson, 1
K. P. Strickland, 2
R. A. Waud, 3

ORANGEVILLE
V. H. K. Moorhouse, 1R

OTTAWA
J. R. Beaton, 2
J. A. Campbell, 5
A. Desmarais, 1
L. P. Dugal, 1
J. Gibbard, 6
W. D. Graham, 3
L. Greenberg, 6
J. S. Hart, 1
S. F. Kitchen, 6
F. C. Lu, 3
B. B. Migicovsky, 2
J. F. Morgan, 2
C. A. Morrell, 3
L. B. Pett, 5
L. I. Pugsley, 2

PORT HOPE
C. C. Benson, 2R

TORONTO
E. Baer, 2
C. H. Best, 1, 2
R. B. Bromiley, 1
M. H. Brown, 6
G. C. Butler, 2
J. Campbell, 1
W. R. Campbell, 2R
W. G. B. Casselman, 1
S. L. Cohen, 2
H. Cullumbine, 3
T. G. H. Drake, 5
J. K. W. Ferguson, 1, 3
A. M. Fisher, 2
K. C. Fisher, 1
E. S. Goranson, 1
R. E. Haist, 1
A. W. Ham, 4
J. D. Hamilton, 4
C. S. Hanes, 2
A. Hunter, 2R
J. Hunter, 1
W. H. Johnson, 1
W. Kalow, 3
C. C. Lucas, 2
G. H. W. Lucas, 2, 3
J. F. Manery, 1
J. Markowitz, 1
W. D. McFarlane, 2
E. W. McHenry, 2, 5
B. A. McLaren, 5
F. R. Miller, 1R
F. C. Monkhouse, 1
E. C. Robertson, 5
D. A. Scott, 2
E. A. Sellers, 1
C. O. Siebenmann, 3
F. A. Sunahara, 1
N. B. Taylor, 1
H. Wasteneys, 2R
A. M. Wynne, 2

QUEBEC

HULL
C. E. Rice, 6

MONTREAL
I. T. Beck, 3
W. Bourne, 3
J. S. L. Browne, 1
A. S. V. Burgen, 1, 3
B. D. Burns, 1
R. V. Christie, 1
R. A. Cleghorn, 1
O. F. Denstedt, 2
S. Dworkin, 1
K. A. C. Elliott, 2
V. Fredette, 6
H. H. Jasper, 1
H. Lubinski, 6
F. C. MacIntosh, 1, 3
J. D. McColl, 3
K. I. Melville, 3
E. Page, 1
W. G. Penfield, 1
J. H. Quastel, 2
H. Selye, 1
D. L. Thomson, 2
E. H. Venning, 2

QUEBEC CITY
G. A. Bergeron, 1
R. Bernard, 1
E. W. Crampton, 5
D. Fairbairn, 2

SASKATCHEWAN

SASKATOON
R. W. Begg, 2
L. B. Jaques, 1, 3

MEXICO

GUADALAJARA
J. Pisanty O., 1

MEXICO CITY D. F.
E. C. del Pozo, 1
F. Guerra, 3
J. J. Izquierdo, 1
R. Mendez, 3
E. G. Pardo, 3
A. Rosenblueth, 1
A. Zaffaroni, 2

SAN LUIS POTOSI
R. Villarreal, 1

OUTSIDE NORTH AMERICA

ARGENTINA

V. Deulofeu, 2
B. Houssay, 1H
L. F. Leloir, 2

AUSTRALIA

W. R. Adey, 1
A. Bolliger, 2
J. C. Eccles, 1H
J. F. A. Sprent, 6

AUSTRIA

W. Raab, 1

OUTSIDE NORTH AMERICA

BELGIUM

W. M. Booker, 1, 3
F. Bremer, 1H
J. P. Henry, 1
C. Heymans, 3

BRAZIL

O. Bier, 6
W. L. Koerber, 6
J. G. Lacorte, 6
M. Rocha e Silva, 3
J. R. Valle, 3

BRITISH WEST INDIES

I. F. S. Mackay, 1

CHILE

M. Altamirano, 1

CHINA

H. C. Hou, 5
C.-Y. Sung, 3

COLOMBIA

F. R. Hunter, 1
K. Mezey, 3

DENMARK

H. Dam, 2, 5
E. Jacobsen, 3

ENGLAND

E. D. Adrian, 1H
E. L. Beckman, 1
J. M. Benforado, 3
J. H. Burn, 3
A. L. Copley, 1
H. H. Dale, 3H
E. de Savitsch, 4
O. G. Edholm, 1
M. P. Fitzgerald, 1R
G. E. Folk, Jr., 1
A. V. Hill, 1H
R. Hodes, 1
A. Hodgkin, 1H
T. E. King, 2
V. Massey, 2
J. T. Park, 2
F. J. W. Roughton, 1H
H. Sinclair, 5
H. H. Tallan, 2
C. A. G. Wiersma, 1

FINLAND

P. K. Roine, 5

FRANCE

A. Bussard, 6
R. L. Cahen, 3
H. E. Foster, 6R
P. Grabar, 6
L. Lapicque, 1H
J. Oudin, 6
M. Raynaud, 6
R. L. Zwemer, 1

GERMANY

O. H. Gauer, 1
S. Rapoport, 2
R. Thauer, 1
K. von Frisch, 1H
A. Wollenberger, 3

GREECE

J. Caminopetros, 6
A. S. Dontas, 3
G. Joachimoglu, 3

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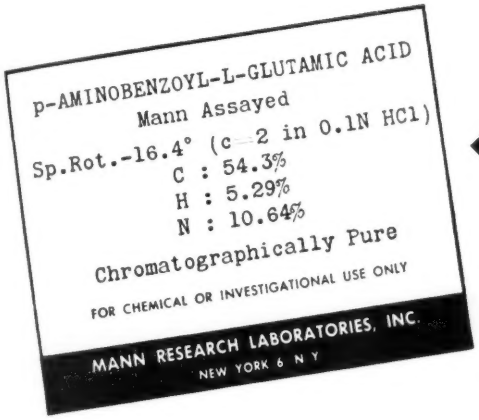

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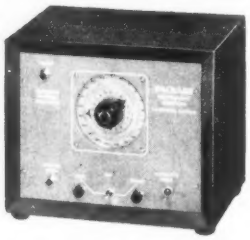

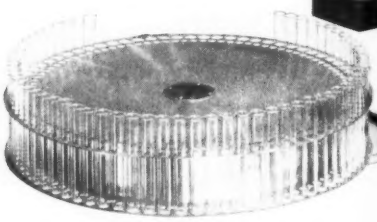

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